WRITING QUERIES FOR BRM FILTERS & LAYOUTS

User Group Meeting September 14, 2021

Senator John A. Nejedly Bridge | CALTRANS

Photo by Chris Briggs

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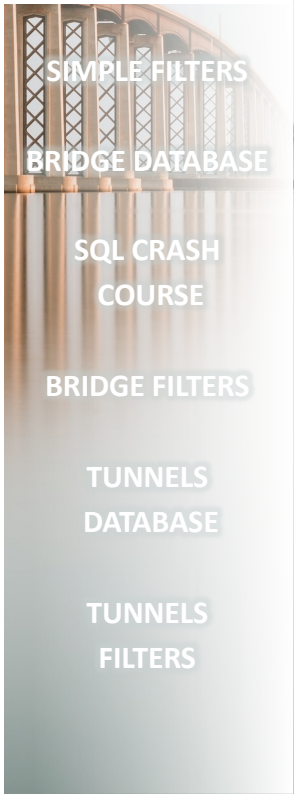
HOW THEY ARE USED



HOW FILTERS & LAYOUTS ARE USED

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SIMPLE FILTERS

BRIDGE DATABASE

SQL CRASH COURSE

BRIDGE FILTERS

TUNNELS DATABASE

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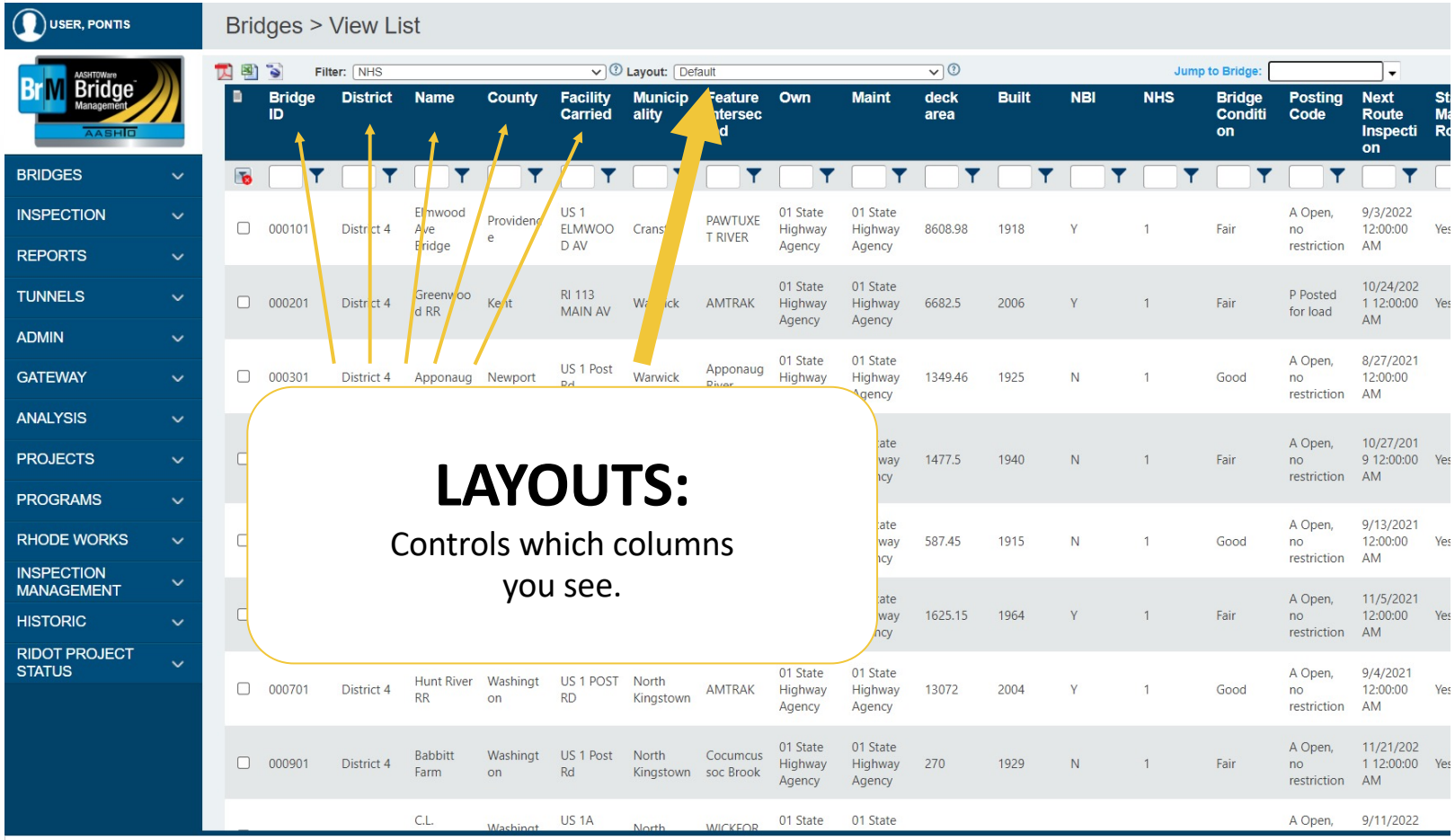

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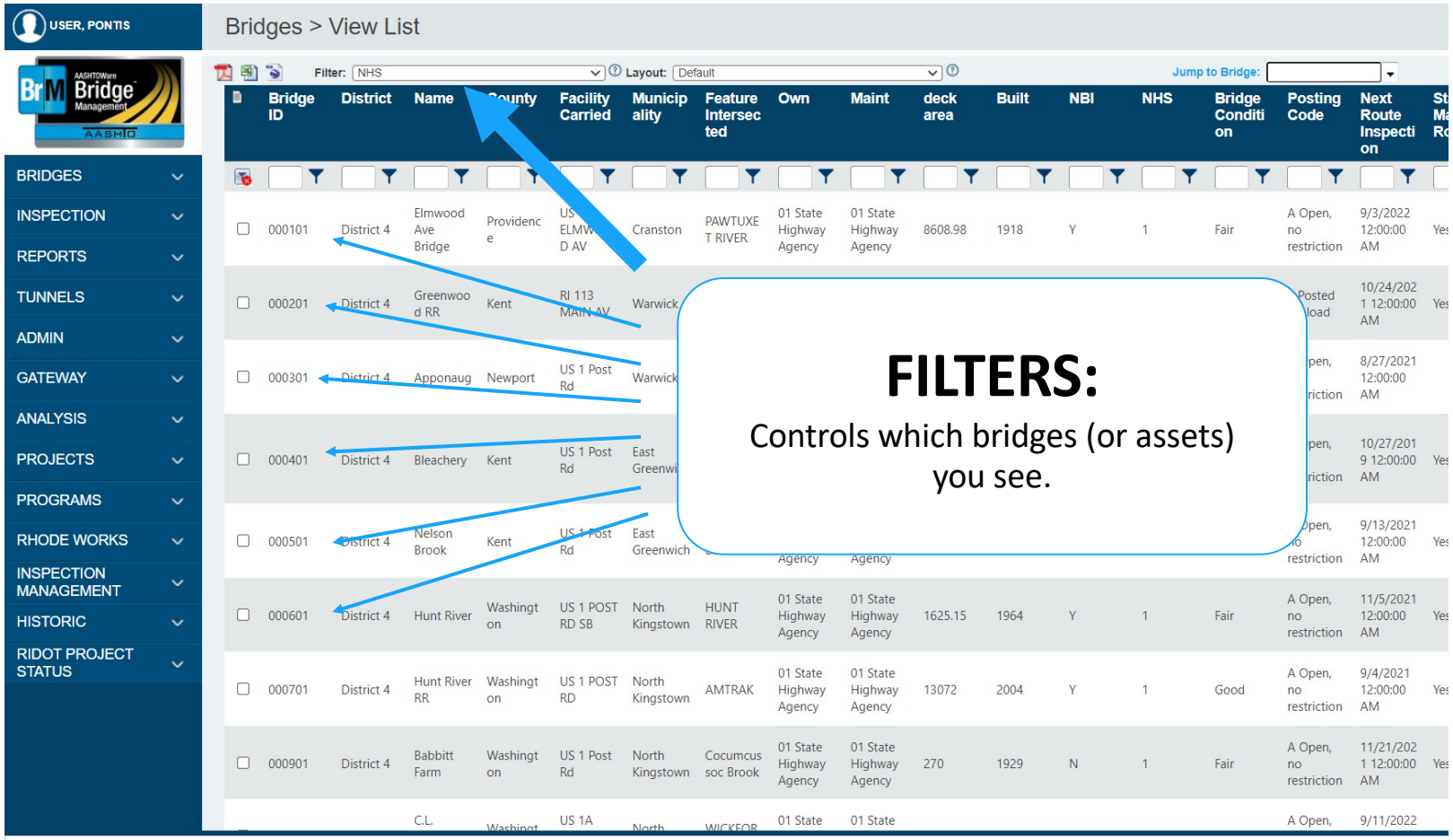

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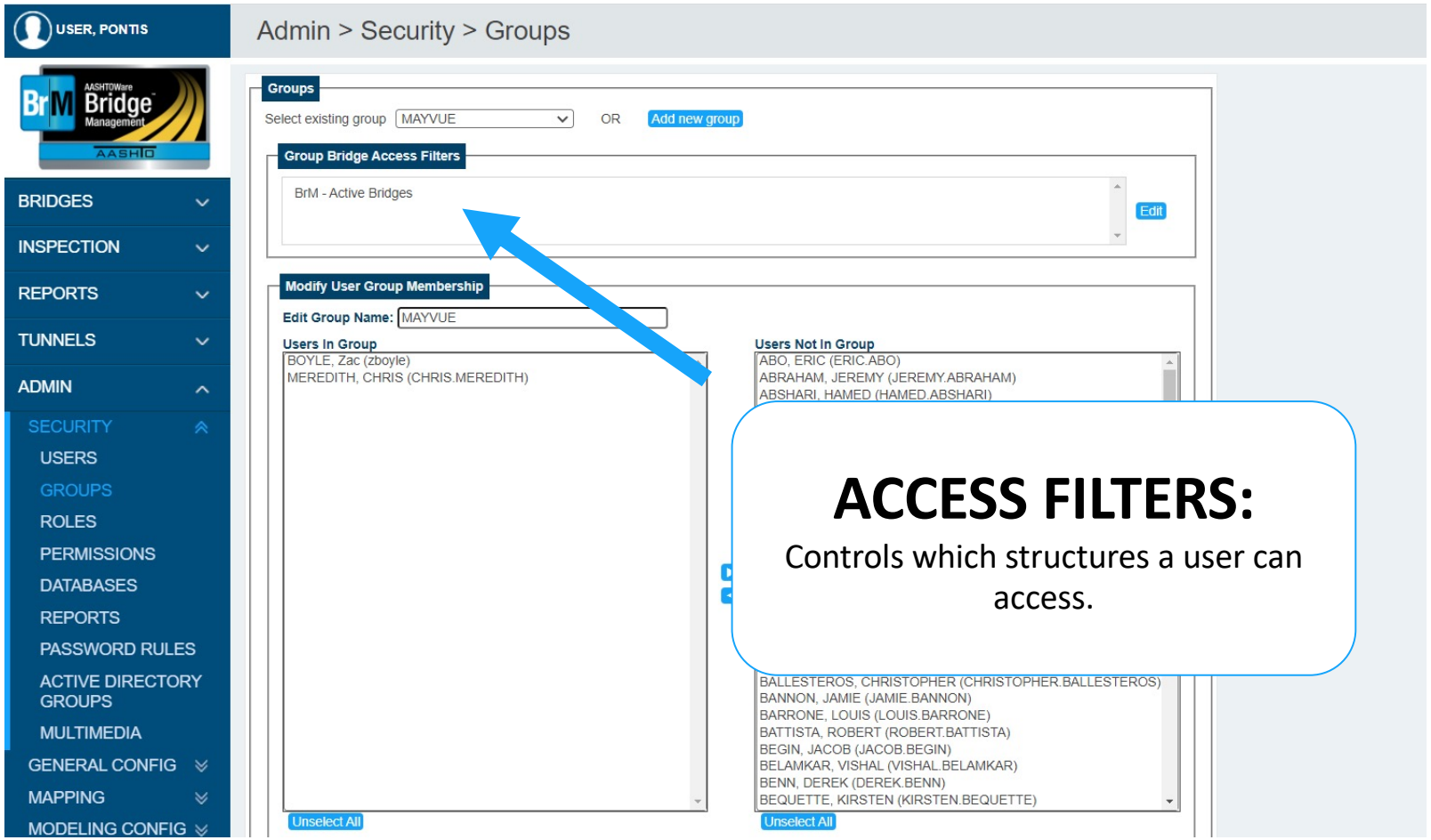

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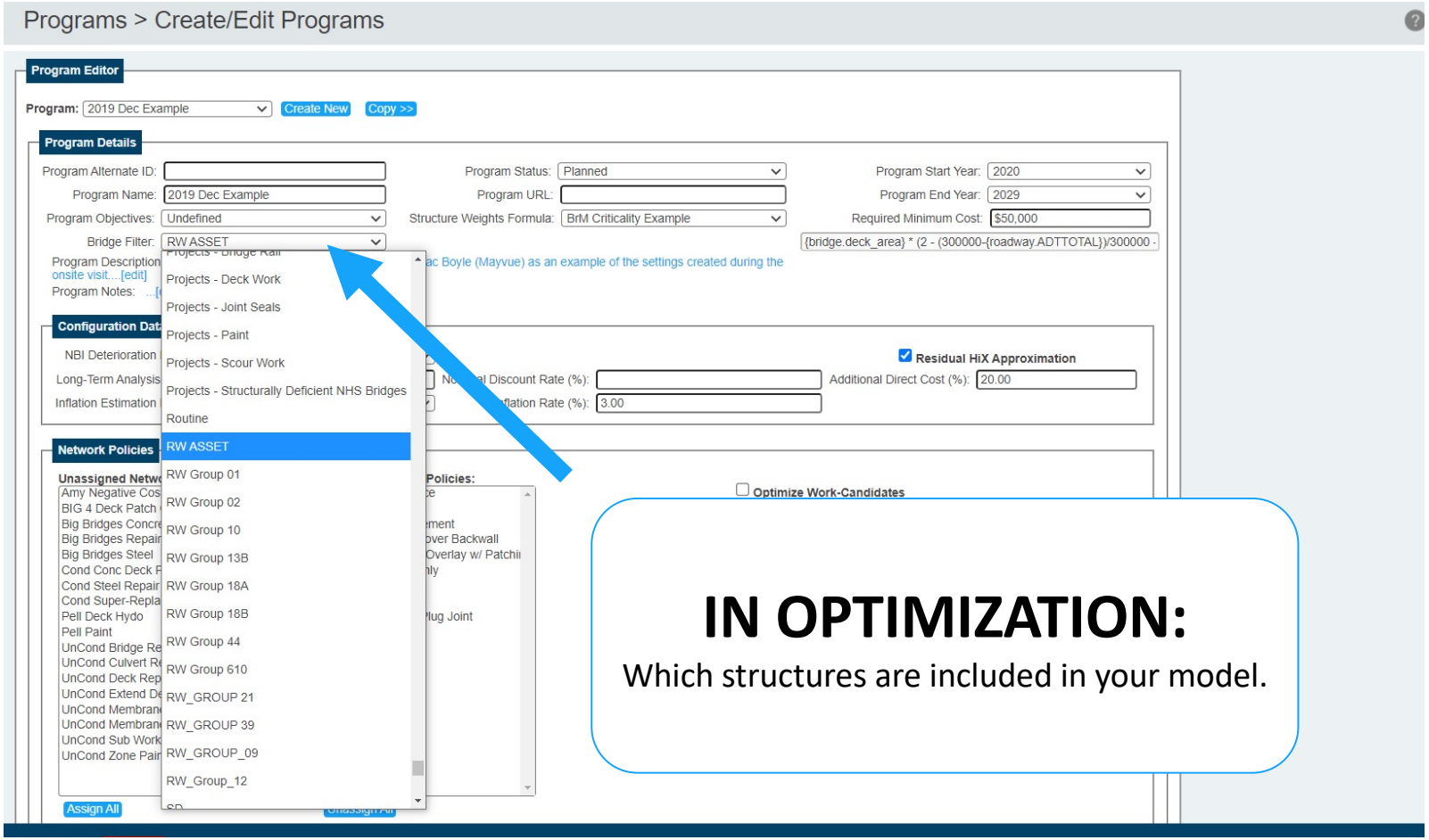

IN OPTIMIZATION:

Which structures are included in your model.

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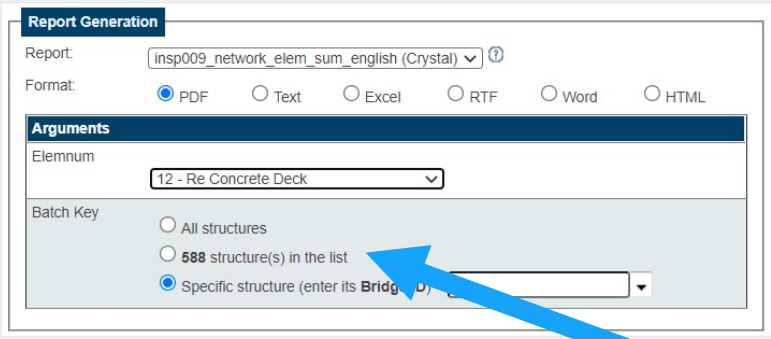
Reports > Generate



IN REPORTS:

Which structures are included in Reports. This comes from the bridge-list selection.

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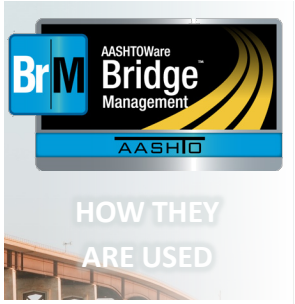

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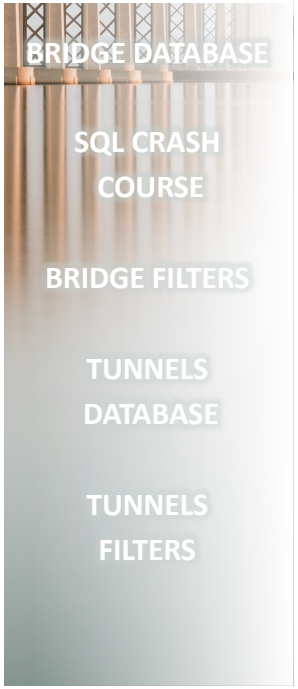

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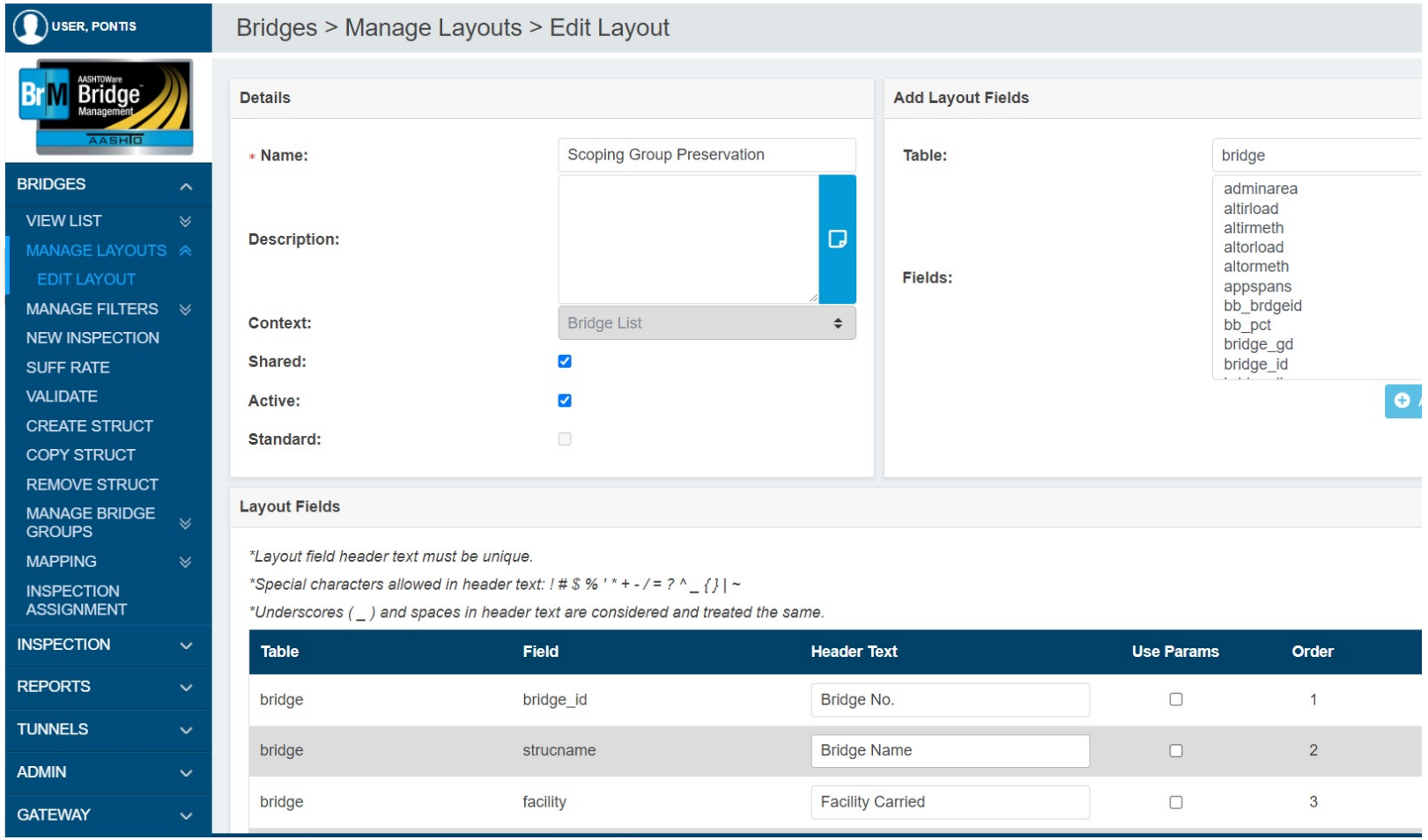

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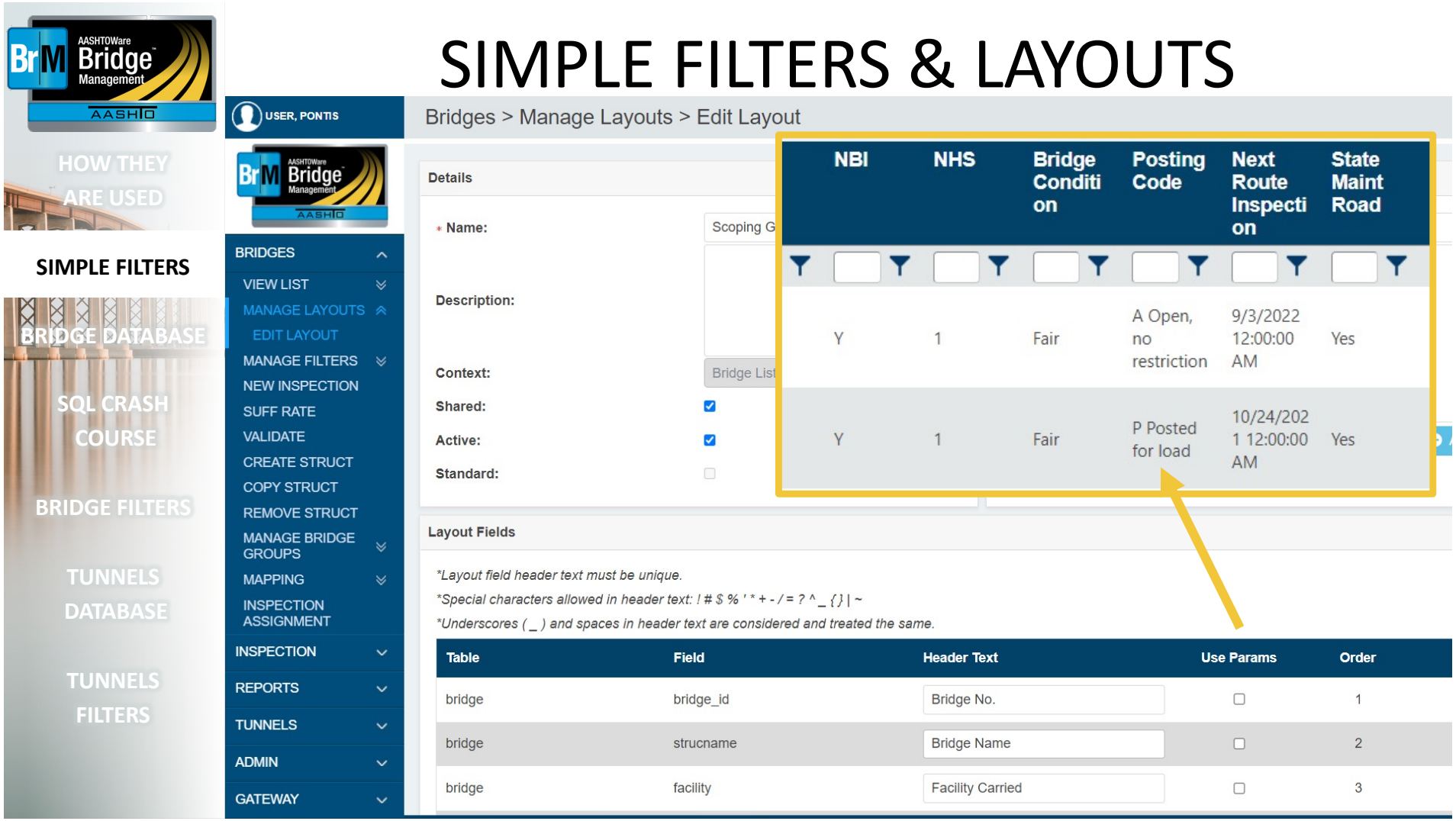

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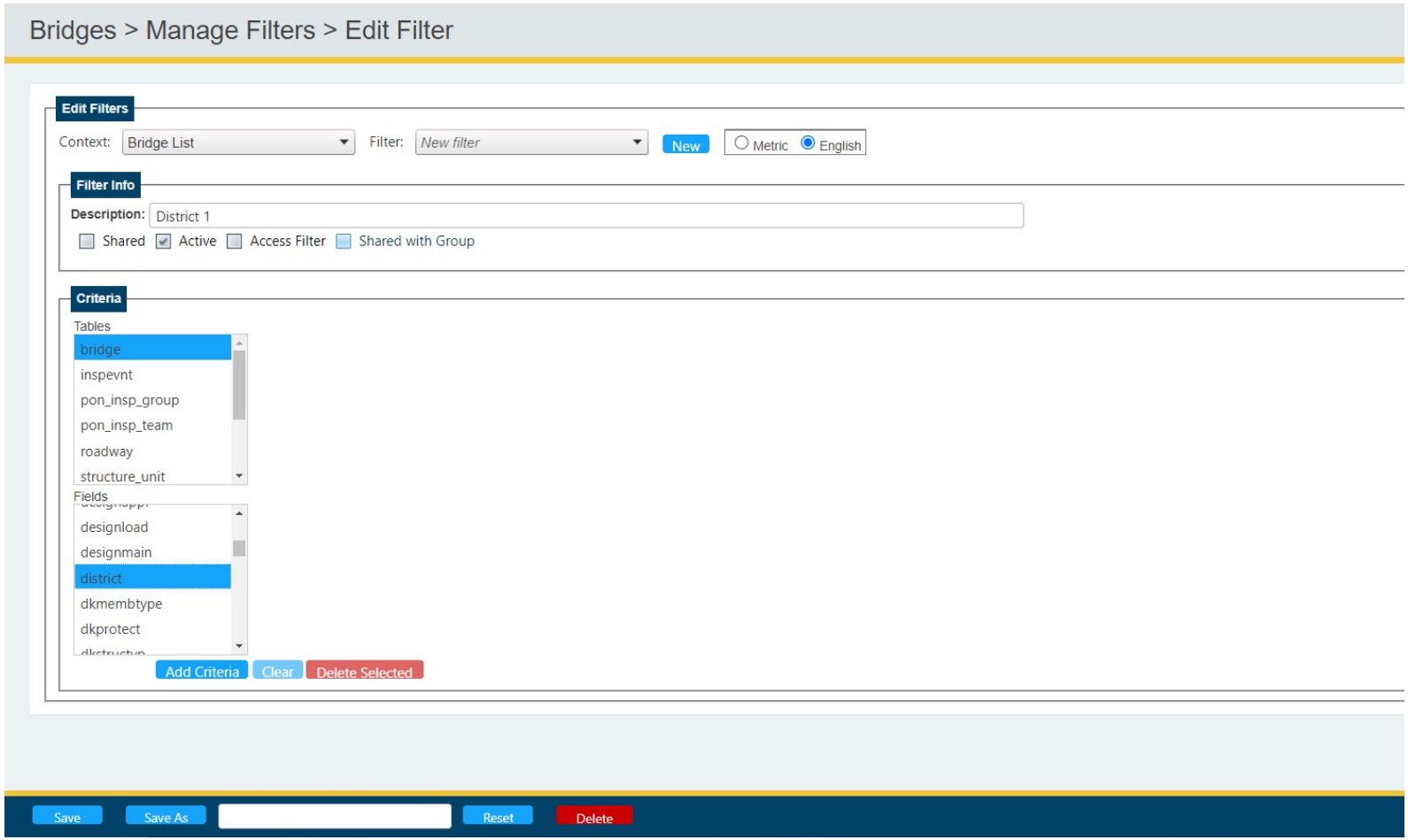

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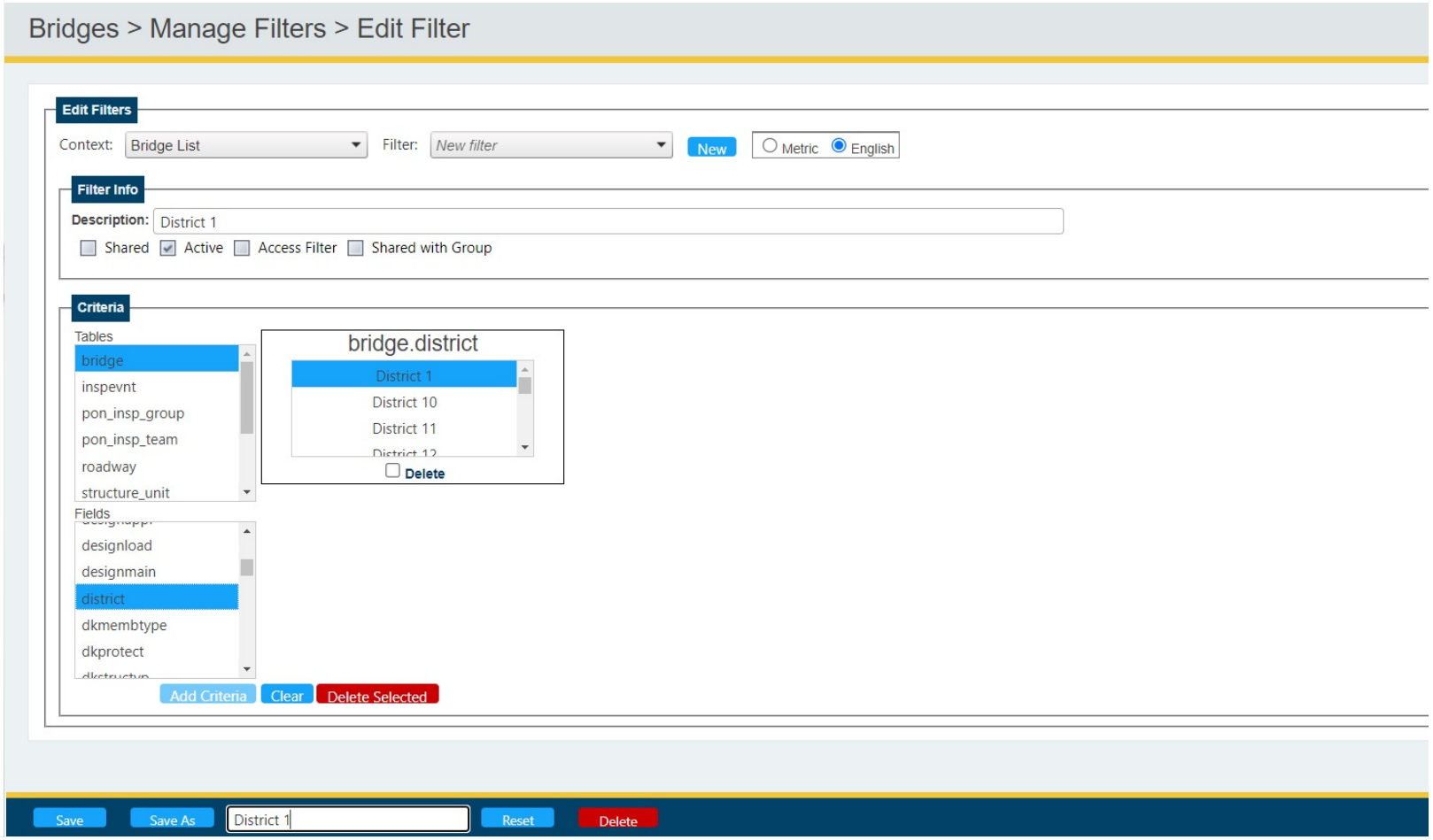

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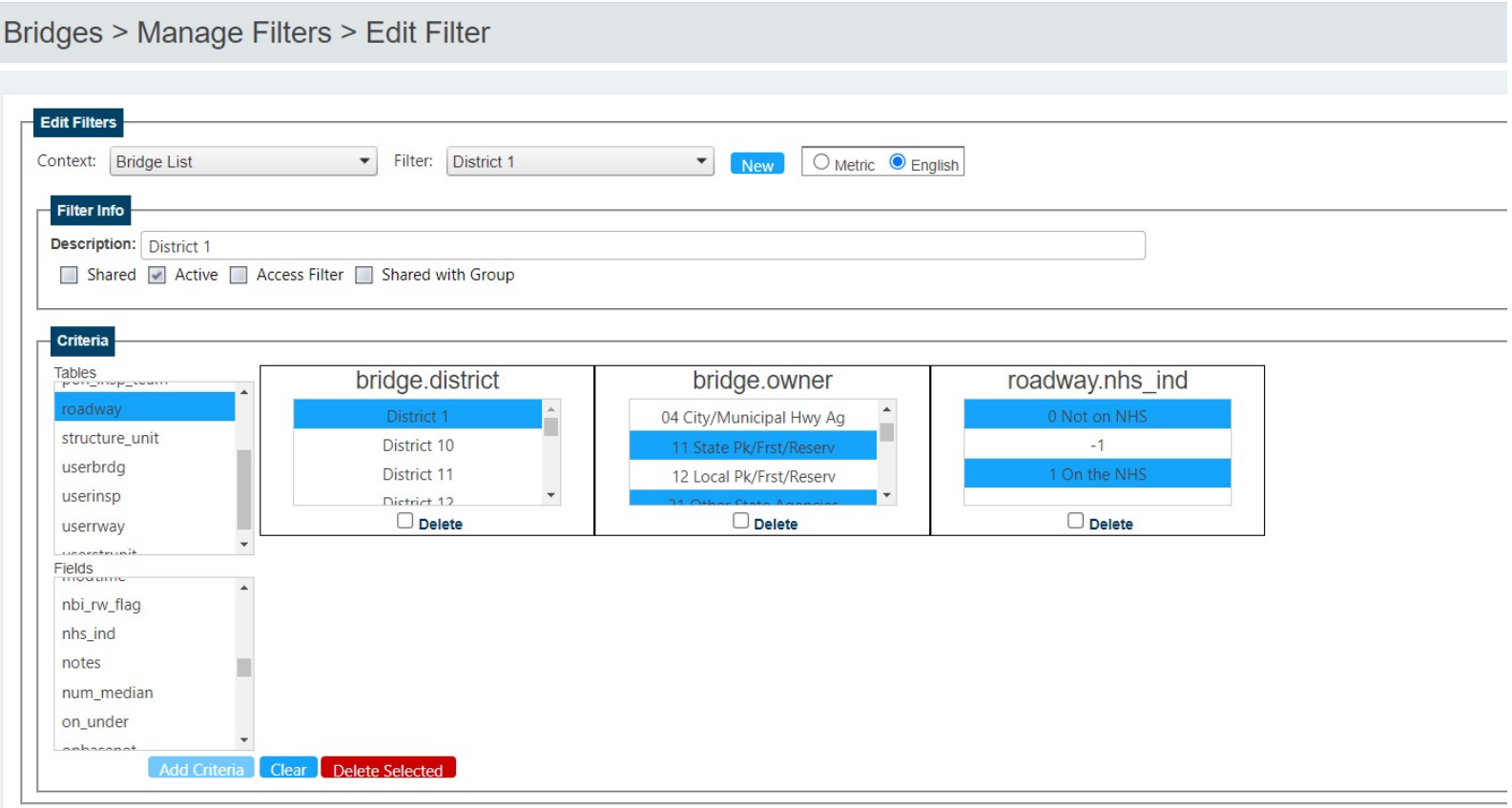

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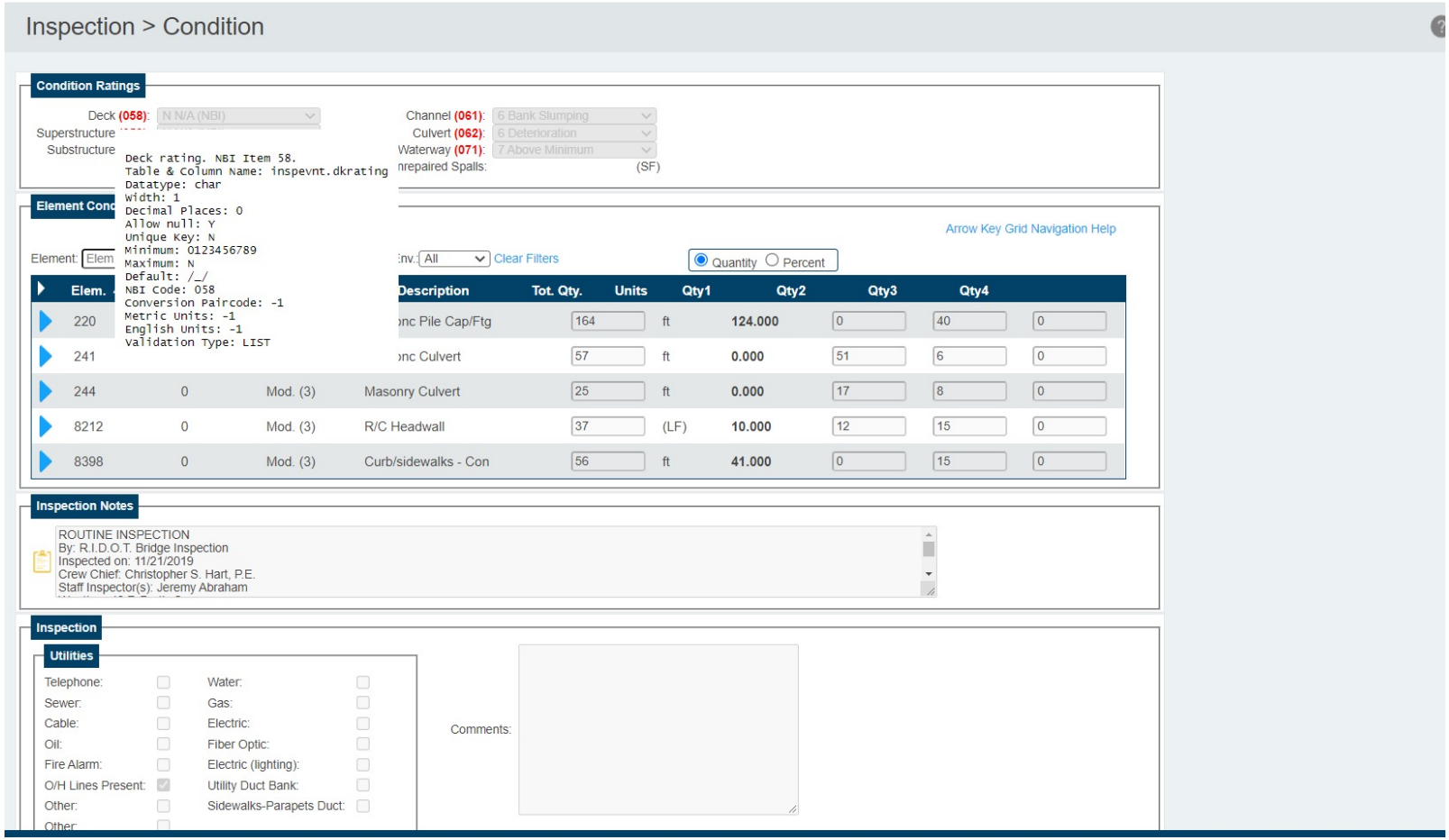

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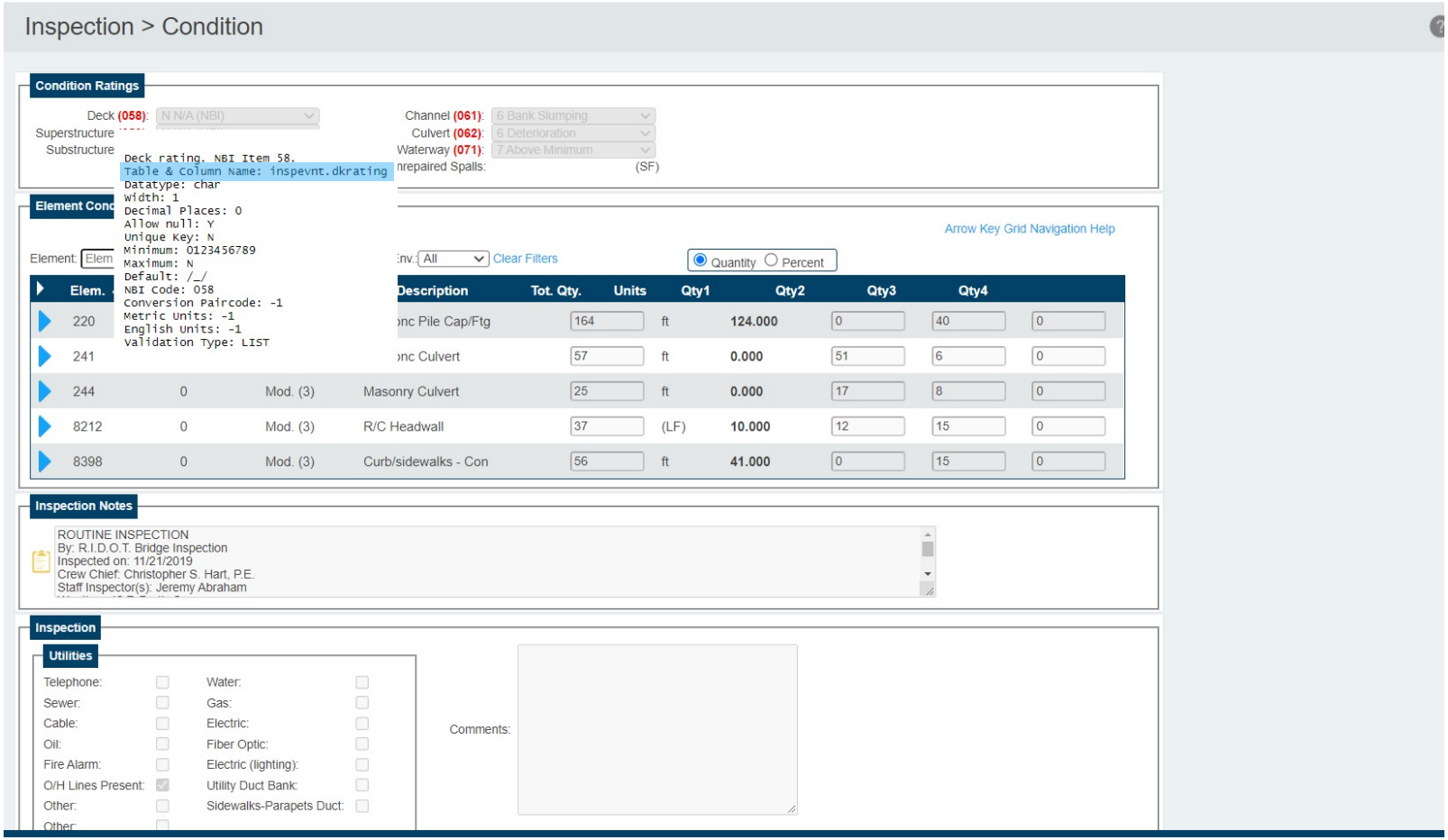

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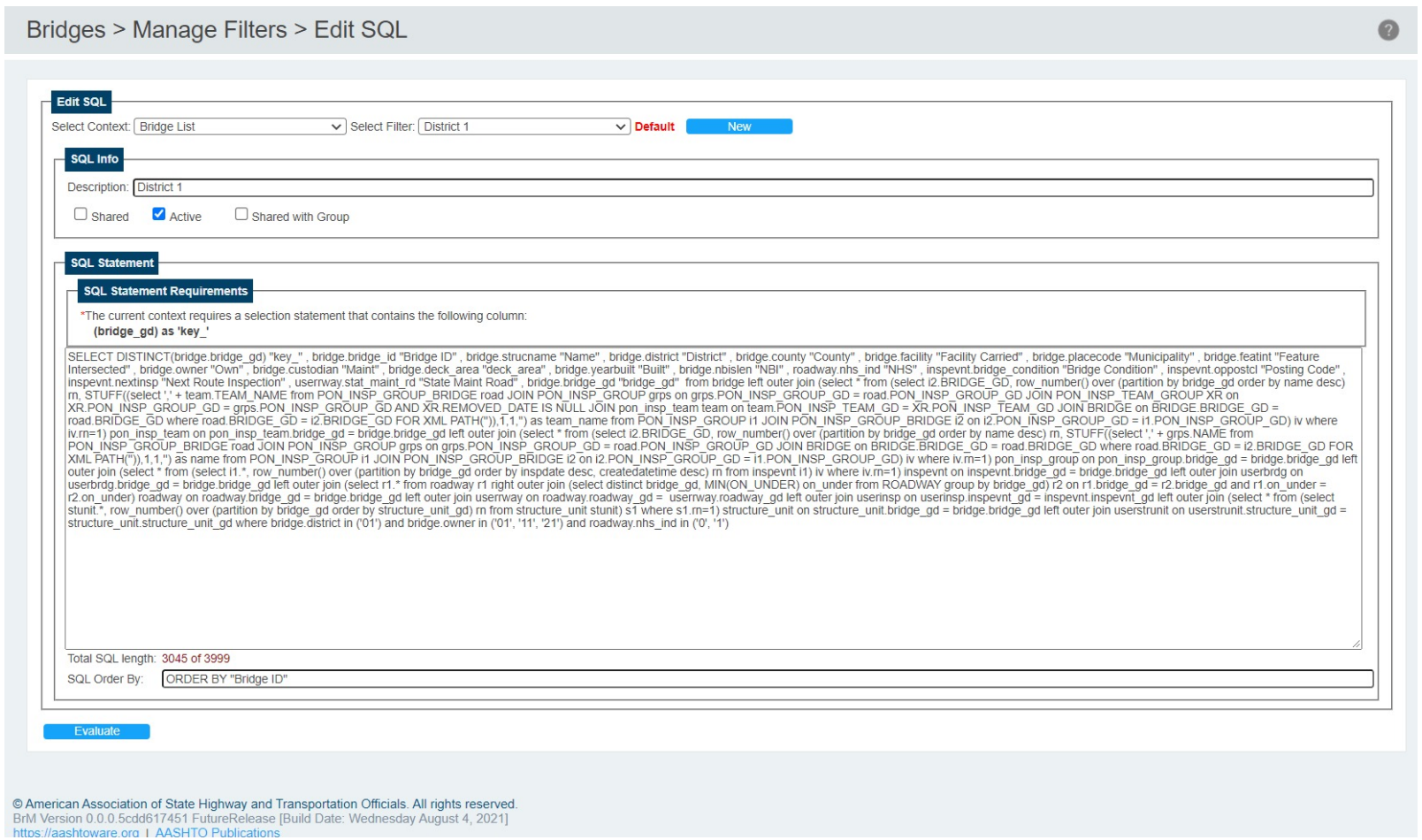

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SO HOW DO YOU WRITE QUERIES
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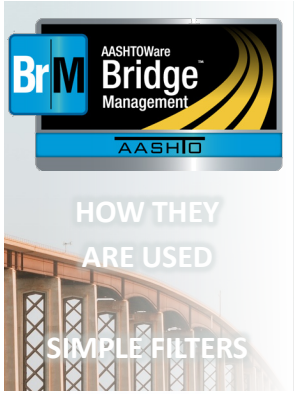

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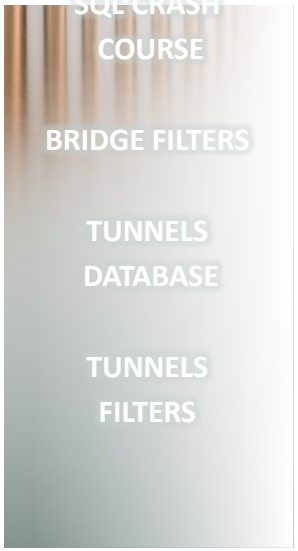

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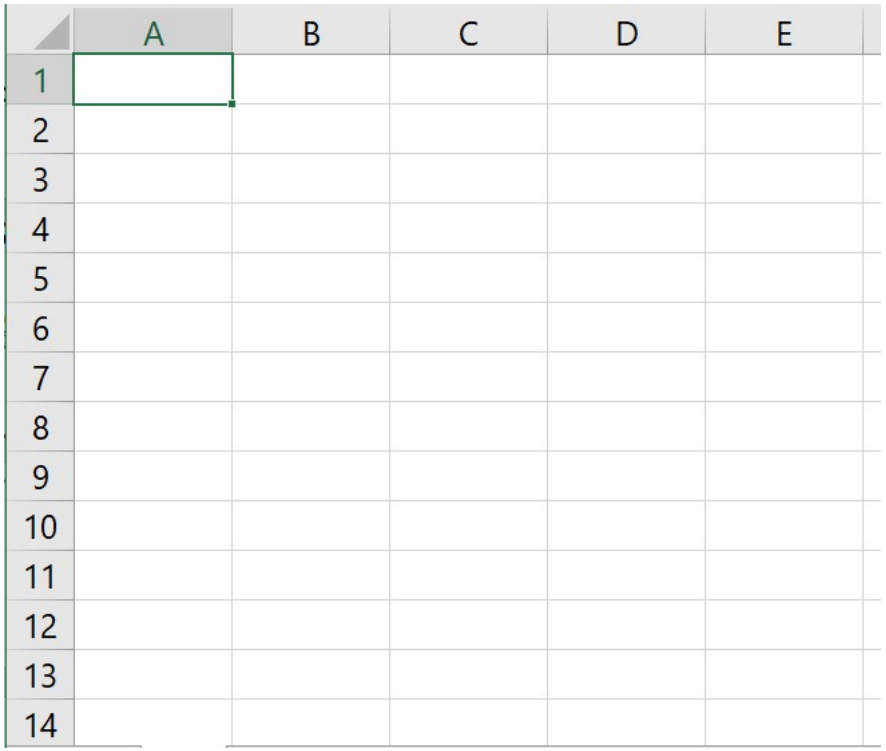
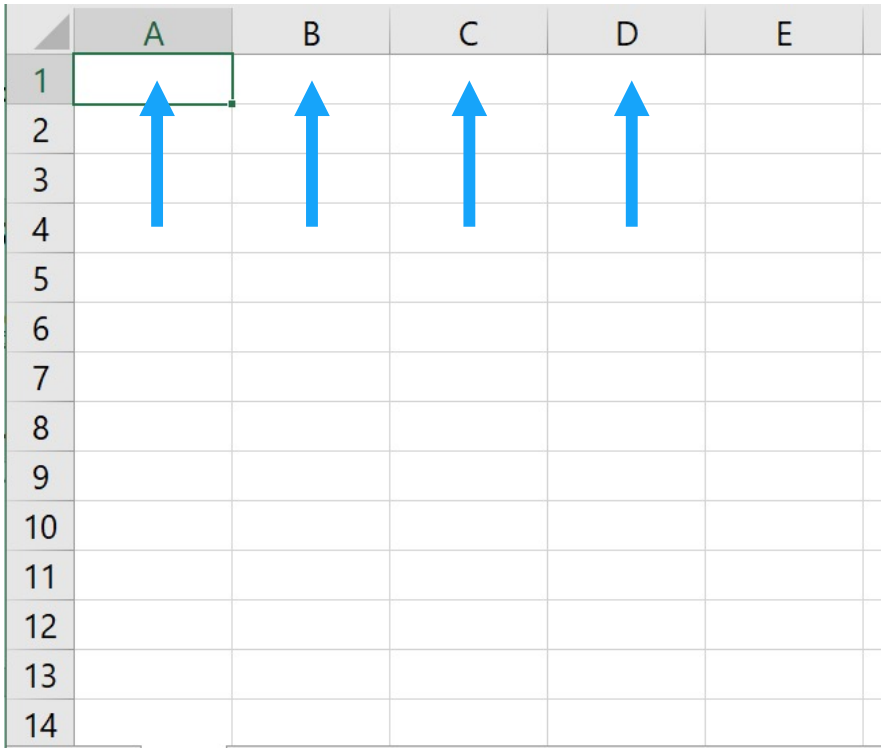
Think of a database table like a spreadsheet, the most common if hard-coded form of database.



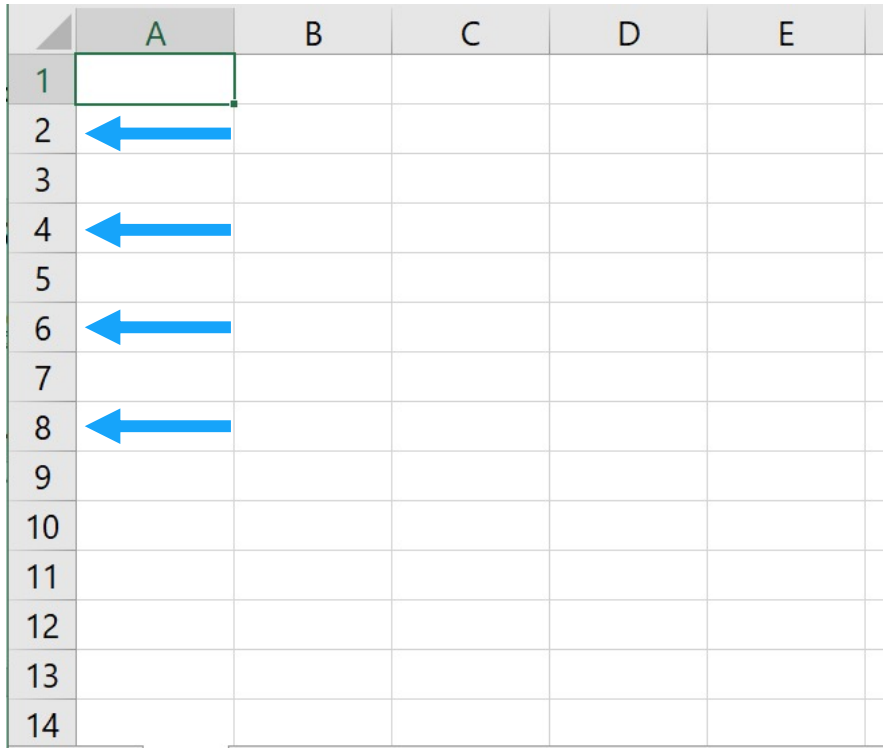
BRIDGE DATABASE

There are columns.



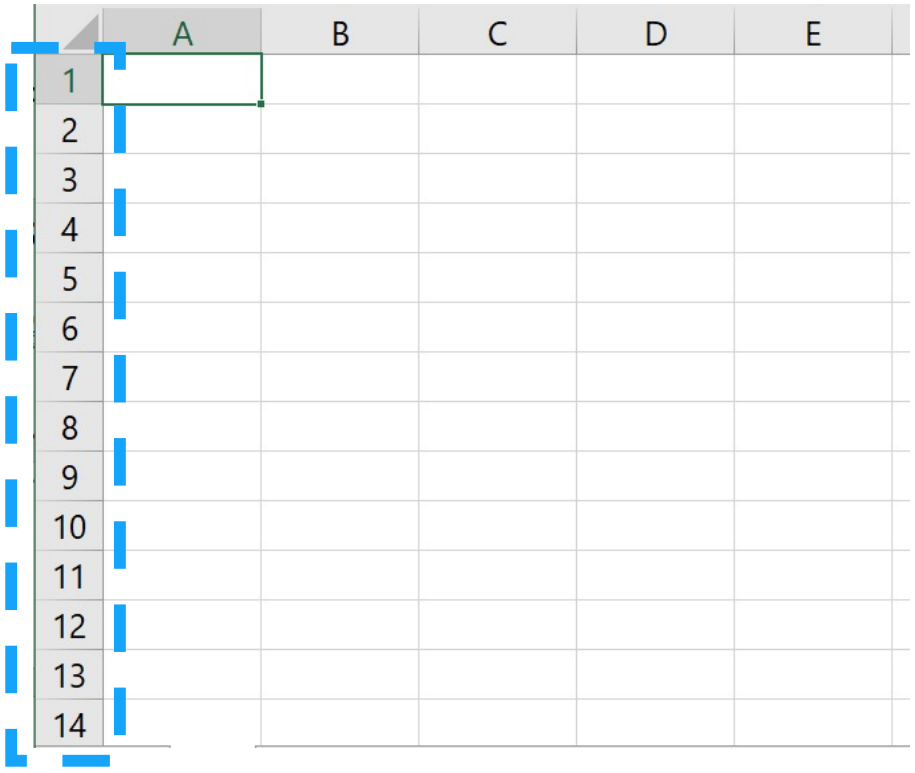
BRIDGE DATABASE

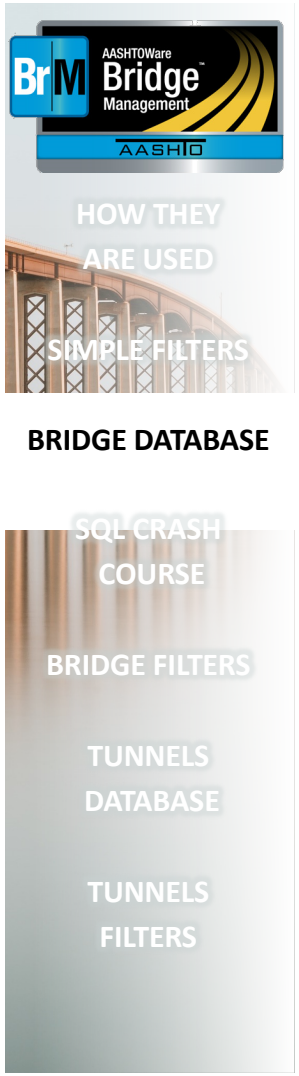
There are rows.



BRIDGE DATABASE

One column is used to specify which row you are talking about. This is called a **Primary Key**.





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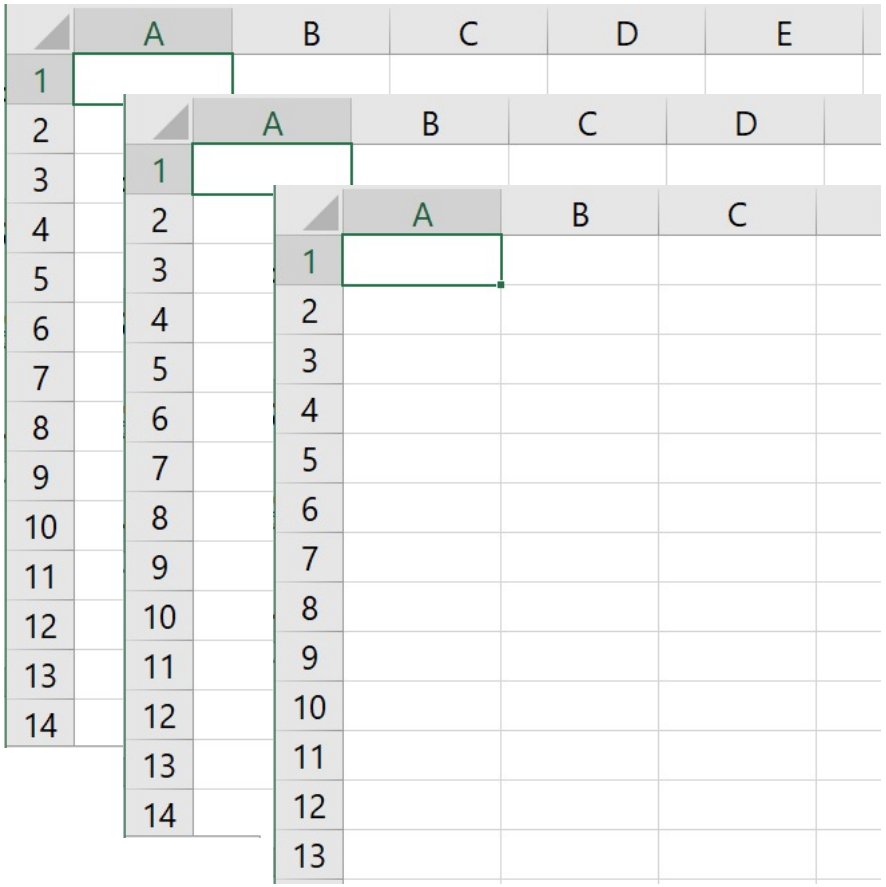
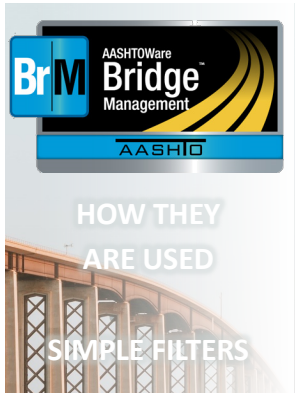
And then there are many tables.





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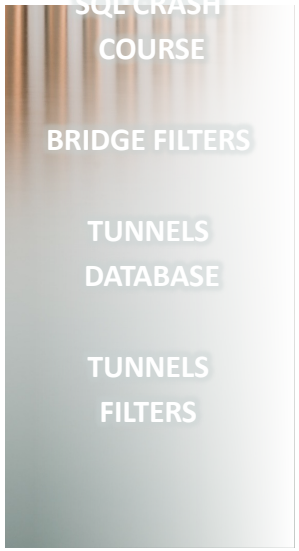

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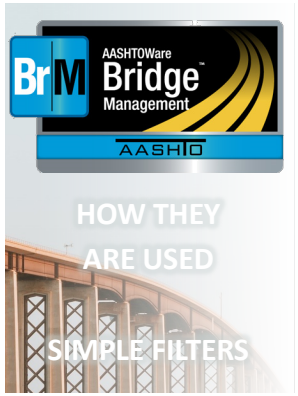
Bridge



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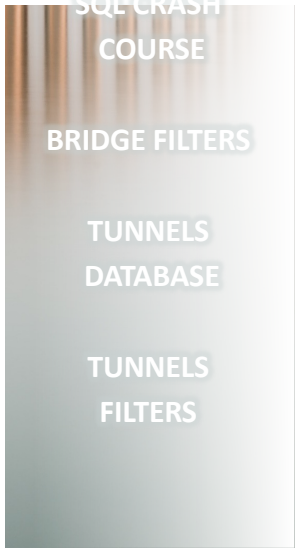
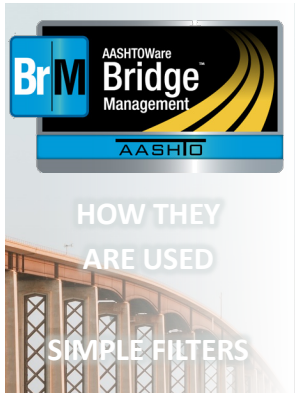


Bridge

BRIDGE DATABASE

One row per bridge

bridge_gd	bridge_id	strucname	struct_num	district	county	facility	featint
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	000000000000010	04	007	US 1 ELMWOOD AV	PAWTUXET RIVER
589DB45C29B8409BB4B9B64FF165828C	000201	Greenwood RR	000000000000020	04	003	RI 113 MAIN AV	AMTRAK
006E87F683604393AE0BF6AC9ADC28FF	000301	Apponaug	000000000000030	04	005	US 1 Post Rd	Apponaug River
9EA18129FC30426FADAA389E68A8461F	000401	Bleachery	000000000000040	04	003	US 1 Post Rd	Bleachery Brook
295BEF26EBA2425BA2B5B9D89FBFA0EB	000501	Nelson Brook	000000000000050	04	003	US 1 Post Rd	Nelson Brook
D95E9B13399848D4B66A1B953AF6B226	000601	Hunt River	000000000000060	04	009	US 1 POST RD SB	HUNT RIVER
BA244F2C61BC45988D245251989F038D	000701	Hunt River RR	000000000000070	04	009	US 1 POST RD	AMTRAK
E82E927C47314D18ADD87D8A0AF6FC88	000801	Sandhill	000000000000080	04	009	Chadsey Rd	Sandhill Brook
7C6E074F2EBF413BA5D1723811A5DE8B	000901	Babbitt Farm	000000000000090	04	009	US 1 Post Rd	Cocumcussoc Brook
F00DC9A1B7454EBDAD2AC995046E6E2A	001001	Wickford	000000000000100	04	009	US 1A Brown St	Academy Cove
003CCB6D48C34F1190FAB1A290F8D0AD	001101	C.L. Hussey Memorial	000000000000110	04	009	US 1A BSTN NCK RD	WICKFORD COVE
6FCAF459588543479E8BC8CEC28DCD4E	001201	Hamilton Mill	000000000000120	04	009	US 1A Bstn Nck Rd	Annaquatucket River
B501208C928A466AB21573610C8C498F	001301	Hamilton Canal	000000000000130	04	009	US 1A Bstn Nck Rd	Mill Canal
625592B414B54FD5BBADA3893D0FAE1C	001401	Middle Bridge	000000000000140	05	009	MIDDLE BRIDGE RD	PETTAQUAMSCUTT RIVER
87FA3C2246574E1281CCCB12186CB247	001501	Austin Farm	000000000000150	04	009	US 1 POST RD NB	HUNT RIVER
D1C57BDCE5DB4631B30472C3E39D9D1C	001601	Sandhill Pond	000000000000160	04	009	US 1 Post Rd	Sandhill Pond
BEA69D9F114C49ECB3B95F1F7D5DF038	001701	Governor Sprague	000000000000170	05	009	US 1A BSTN NCK RD	NARROW RIVER
68F77E60E5E1491DA232BF0ABF7323BE	001801	Narragansett Mill	000000000000180	04	009	US 1 TOWER HILL RD	ANNAQUATUCKET RIVER
4F84D8357023471098C919540A7049DB	001901	Silver Spring Mill	000000000000190	04	009	US 1 Tower Hill Rd	Silver Spring Brook
29C5AD3338C74AFEAB6F61884689F72A	002001	Wakefield	000000000000200	05	009	US 1A MAIN ST	SAUGATUCKET RIVER
FA77F6E65EFA45E6995615A4C61E3EE3	002101	Cross Mills	000000000000210	05	009	US 1A Old Post Rd	Mill Canal
44E57C7C106A4B7AB74A3AF3B8CC5B20	002201	Pawcatuck	000000000000220	05	009	US 1 BROAD STREET	PAWCATUCK RIVER



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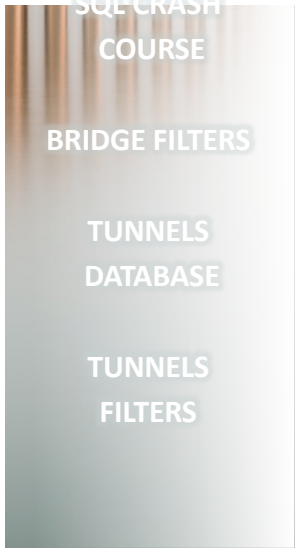

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One row per bridge

Notice the Primary Key

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F00DC9A1B7454EBDAD2AC995046E6E2A	001001	Wickford	000000000000100	04	009	US 1A Brown St	Academy Cove
003CCB6D48C34F1190FAB1A290F8D0AD	001101	C.L. Hussey Memorial	000000000000110	04	009	US 1A BSTN NCK RD	WICKFORD COVE
6FCAF459588543479E8BC8CEC28DCD4E	001201	Hamilton Mill	000000000000120	04	009	US 1A Bstn Nck Rd	Annaquatucket River
B501208C928A466AB21573610C8C498F	001301	Hamilton Canal	000000000000130	04	009	US 1A Bstn Nck Rd	Mill Canal
625592B414B54FD5BBADA3893D0FAE1C	001401	Middle Bridge	000000000000140	05	009	MIDDLE BRIDGE RD	PETTAQUAMSCUTT RIVER
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BEA69D9F114C49ECB3B95F1F7D5DF038	001701	Governor Sprague	000000000000170	05	009	US 1A BSTN NCK RD	NARROW RIVER
68F77E60E5E1491DA232BF0ABF7323BE	001801	Narragansett Mill	000000000000180	04	009	US 1 TOWER HILL RD	ANNAQUATUCKET RIVER
4F84D8357023471098C919540A7049DB	001901	Silver Spring Mill	000000000000190	04	009	US 1 Tower Hill Rd	Silver Spring Brook
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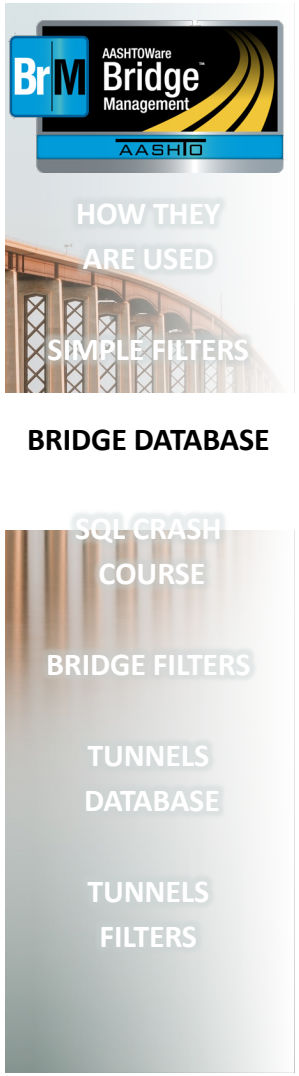

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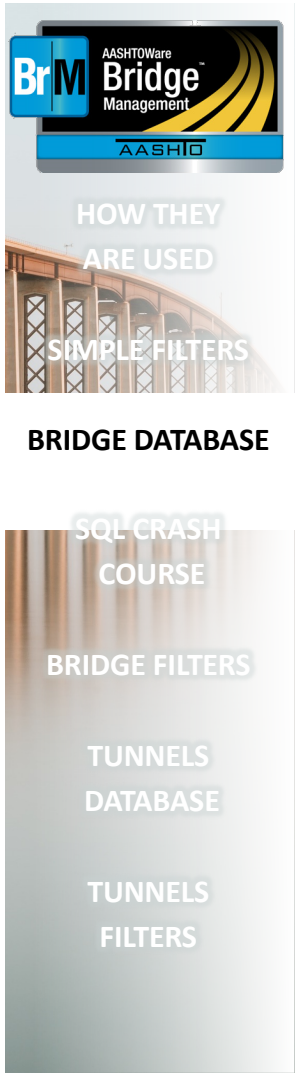
InspEvnt



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InspEvnt

One row per Inspection

inspevnt_gd	bridge_gd	inspdate	inspkey	NBINSPDONE	FCINSPDONE	UWINSPDONE	OSINSPDONE
1E039D70CE6D44FCB57DAF992D944D7A	003CCB6D48C34F1190FAB1A290F8D0AD	2013-11-01 00:00:00.000	CUYM	0	1	0	0
19D08DC6A3E14F3094BD2C46EACCB998	003CCB6D48C34F1190FAB1A290F8D0AD	2014-10-29 00:00:00.000	GWNQ	1	1	0	0
56FA347420D144718D7F71D18CD113AA	003CCB6D48C34F1190FAB1A290F8D0AD	2015-07-17 00:00:00.000	YFJX	0	0	0	1
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804A8133AEB24B869C1AECDA6DAD44E4	003CCB6D48C34F1190FAB1A290F8D0AD	2019-09-17 00:00:00.000	OTMP	0	1	0	0
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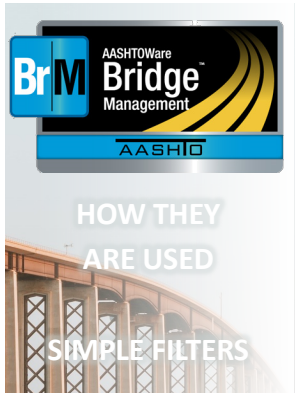

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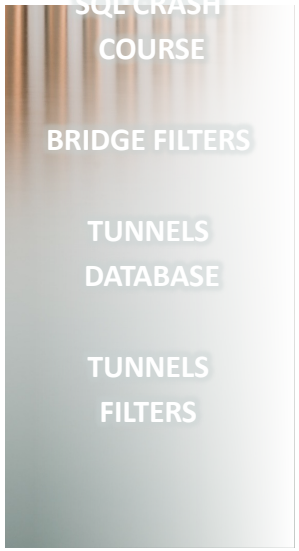

BRIDGE DATABASE

Bridge

InspEvnt

One row per Inspection

Notice the Primary Key

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8BBA6276FBFF4F39B9C61B9079E350D5	003CCB6D48C34F1190FAB1A290F8D0AD	2015-10-19 00:00:00.000	GJZW	0	0	0	1
B931977BC9554B32AE30102B0E5C89E2	003CCB6D48C34F1190FAB1A290F8D0AD	2016-10-12 00:00:00.000	YWOA	1	1	1	1
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38390CCA091B4EF6BCCF52E6CFEC61E3	0053F8D9FDFE4C92B39CF37BC32D24D2	2019-05-22 00:00:00.000	WAGZ	1	1	0	0
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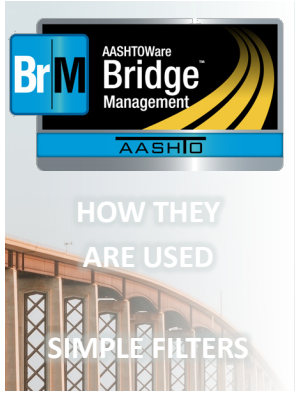

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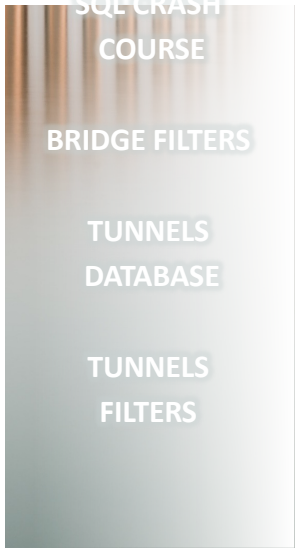

BRIDGE DATABASE

Bridge

InspEvnt

One row per Inspection

Notice the Primary Key

And the Foreign Key

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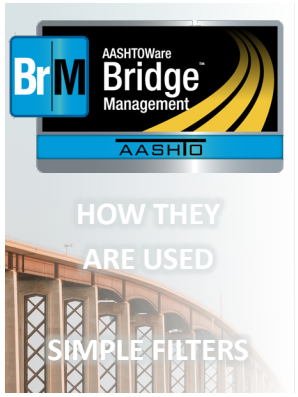

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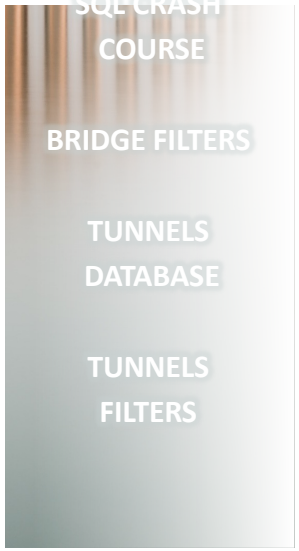

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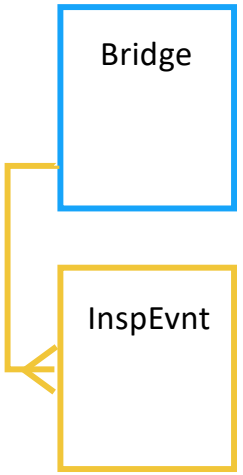

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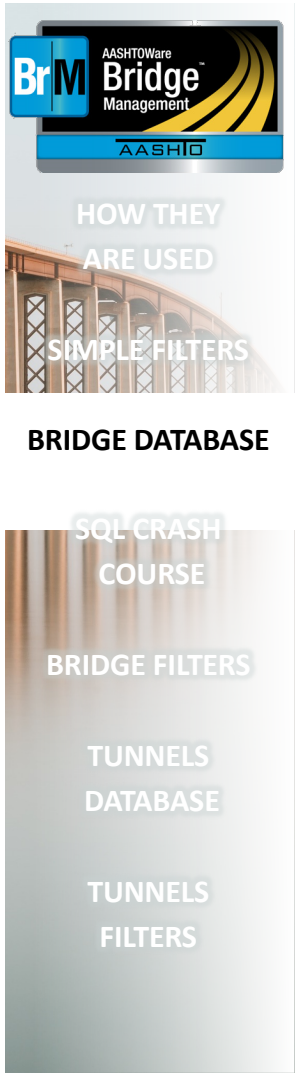

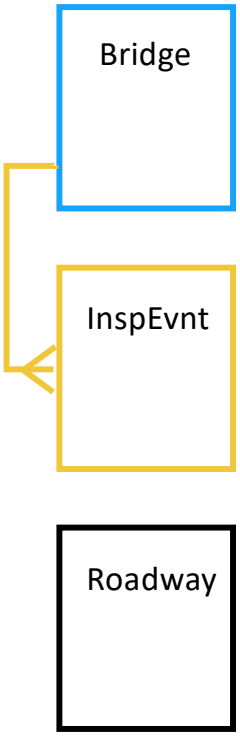

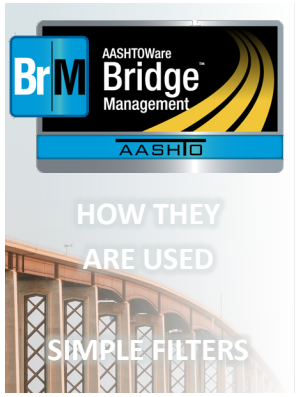

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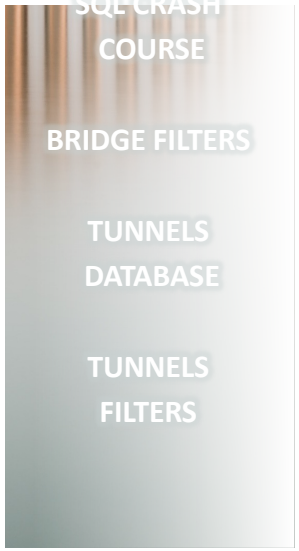

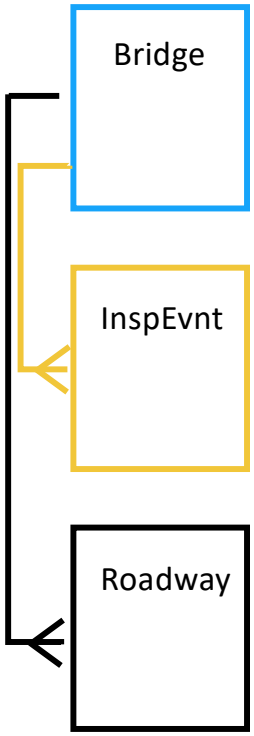

BRIDGE DATABASE

One row per Roadway entry

Notice the Primary Key

And the Foreign Key

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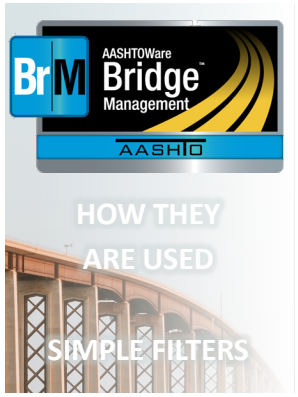
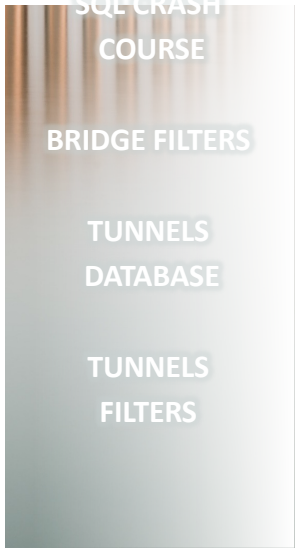
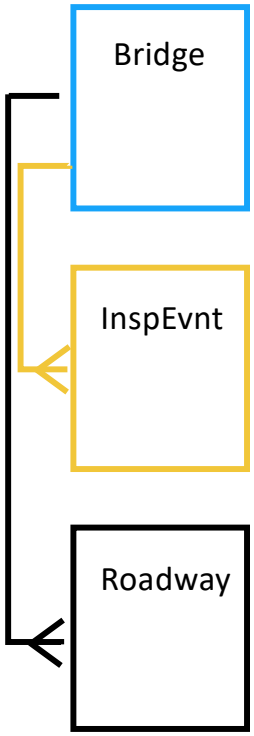
48747D562BBD400084C2347E87D2DCFD	0053F8D9FDFE4C92B39CF37BC32D24D2	2	1	1	00095	0	I-95 NB-SB
35E191A5DBFB4F2F8AAAE763F91589D9	006E87F683604393AE0BF6AC9ADC28FF	1	2	1	00001	0	US 1 Post Rd
E75B6C8DA17341328C8143344883C522	00AAD2F9E95946319BD0314D7AC72B47	1	3	1	00146	1	RI 146
65EA61FC873F4D9F95BF5AA2874B438E	00AAD2F9E95946319BD0314D7AC72B47	2	3	2	00104	0	Famum Pike
67C3BD88487A4AD085712566F691C5AA	00E476A1FBA1490583592FA090B472B4	1	2	6	00001	0	MAIN ST
4BBB07124CDA4D87ACF9CFE5651EFC83	01E8B18A2BFF49AAB4F7BDB077F34E0D	1	3	1	00114	0	RI 114-RI 24 on ramp WMain Rd.
7715E36822FF4D8AA91C021AEAA678DB	020AAD312950406A84B267315FC7BB4C	1	3	1	00117	0	RI 117 Flat River Rd
D49F7AAD7463487ABBFDD0A55DE6E2BF	0221AEC60C1C427FAEA28FDF95E580AD	1	3	1	00102	0	RI 102 Victory Hwy
5B5D17AA3E024E53B47A14B57362B4AC	025A8EBBC8C94F7098653C9CA03AEF8F	1	5	0	00000	0	PONTIAC AV
EB93704213E9463791C66CFC7333BFF9	02606613A7054E44B7F6A6CB3638B197	1	!	0	00000	0	Blackstone Rvr Bicycle Fac
4E86E059FE97415E88D3F1482D9E7F6A	02685C987FAA49E49D5E4A4F9F47708A	1	5	0	00000	_	F C GREENE MEMORIAL BLVD
1B8542F0AAFE45C9A5CBE5D9FD6B0925	0294A4C23FC648939FE07854B638C1CC	1	1	1	00095	0	I-95 & I-195 RAMP WS
FD7BD4906BCD42B4B2C7C53588F6A3CC	0294A4C23FC648939FE07854B638C1CC	2	5	1	00000	1	O'CONNELL STREET
87B4D1DD90F74F1DAFB73CC5201C22C5	033F9A5EF1EC4CDFBE64EACAFB7CABB4	1	5	1	00000	0	MIDDLE RD
A4AFA799639C4216ADE1E7DD93AF5017	033F9A5EF1EC4CDFBE64EACAFB7CABB4	2	3	1	00004	0	RI 4
EF21CC8279854D21886DD36FCF7F0280	0342A064EDA741079A462133665E53C7	1	5	1	00000	2	Saugatucket Rd
A0B327BCDB5C458294453F5725699E95	0353EC65B6F24A238696E5124B203C29	1	5	0	00000	0	SLATER ST



BRIDGE DATABASE

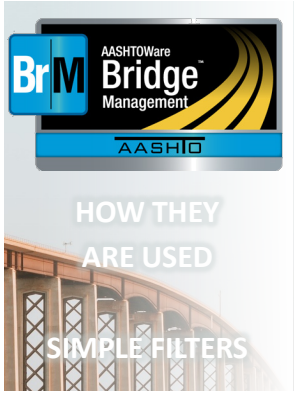




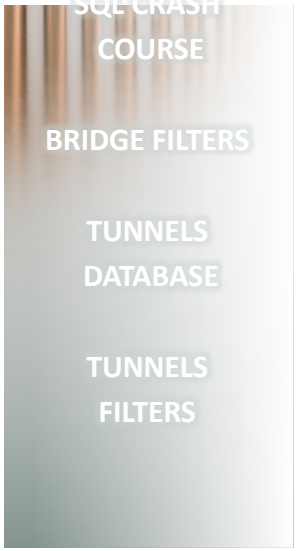
BRIDGE DATABASE

One row per Roadway entry

roadway_gd	bridge_gd	on_under	kind_hwy	levl_srvc	routenum	dirsuffix	roadway_name
02BC23F0FB5C423F9233986D0D6C35CF	003B8243342F417880AC9A58D39EC2D8	1	3	1	00401	0	RI 401 (Division Street)
AB498EE3FD674A558C750847F8BDCF1F	003B8243342F417880AC9A58D39EC2D8	2	3	1	00004	0	RI 4 SB
EE9AB778B3ED4ED987806E2C1DE561B3	003CCB6D48C34F1190FAB1A290F8D0AD	1	2	2	0001A	0	US 1A BSTN NCK RD
C27FD1EF29F44F0BAB7EC6D83F3EF8A5	0053F8D9FDFE4C92B39CF37BC32D24D2	1	1	7	00195	4	Ramp WS
48747D562BBD400084C2347E87D2DCFD	0053F8D9FDFE4C92B39CF37BC32D24D2	2	1	1	00095	0	I-95 NB-SB
35E191A5DBFB4F2F8AAAE763F91589D9	006E87F683604393AE0BF6AC9ADC28FF	1	2	1	00001	0	US 1 Post Rd
E75B6C8DA17341328C8143344883C522	00AAD2F9E95946319BD0314D7AC72B47	1	3	1	00146	1	RI 146
65EA61FC873F4D9F95BF5AA2874B438E	00AAD2F9E95946319BD0314D7AC72B47	2	3	2	00104	0	Famum Pike
67C3BD88487A4AD085712566F691C5AA	00E476A1FBA1490583592FA090B472B4	1	2	6	00001	0	MAIN ST
4BBB07124CDA4D87ACF9CFE5651EFC83	01E8B18A2BFF49AAB4F7BDB077F34E0D	1	3	1	00114	0	RI 114-RI 24 on ramp WMain Rd.
7715E36822FF4D8AA91C021AEAA678DB	020AAD312950406A84B267315FC7BB4C	1	3	1	00117	0	RI 117 Flat River Rd
D49F7AAD7463487ABBFDD0A55DE6E2BF	0221AEC60C1C427FAEA28FDF95E580AD	1	3	1	00102	0	RI 102 Victory Hwy
5B5D17AA3E024E53B47A14B57362B4AC	025A8EBBC8C94F7098653C9CA03AEF8F	1	5	0	00000	0	PONTIAC AV
EB93704213E9463791C66CFC7333BFF9	02606613A7054E44B7F6A6CB3638B197	1	!	0	00000	0	Blackstone Rvr Bicycle Fac
4E86E059FE97415E88D3F1482D9E7F6A	02685C987FAA49E49D5E4A4F9F47708A	1	5	0	00000	_	F C GREENE MEMORIAL BLVD
1B8542F0AAFE45C9A5CBE5D9FD6B0925	0294A4C23FC648939FE07854B638C1CC	1	1	1	00095	0	I-95 & I-195 RAMP WS
FD7BD4906BCD42B4B2C7C53588F6A3CC	0294A4C23FC648939FE07854B638C1CC	2	5	1	00000	1	O'CONNELL STREET
87B4D1DD90F74F1DAFB73CC5201C22C5	033F9A5EF1EC4CDFBE64EACAFB7CABB4	1	5	1	00000	0	MIDDLE RD
A4AFA799639C4216ADE1E7DD93AF5017	033F9A5EF1EC4CDFBE64EACAFB7CABB4	2	3	1	00004	0	RI 4
EF21CC8279854D21886DD36FCF7F0280	0342A064EDA741079A462133665E53C7	1	5	1	00000	2	Saugatucket Rd
A0B327BCDB5C458294453F5725699E95	0353EC65B6F24A238696E5124B203C29	1	5	0	00000	0	SLATER ST



BRIDGE DATABASE



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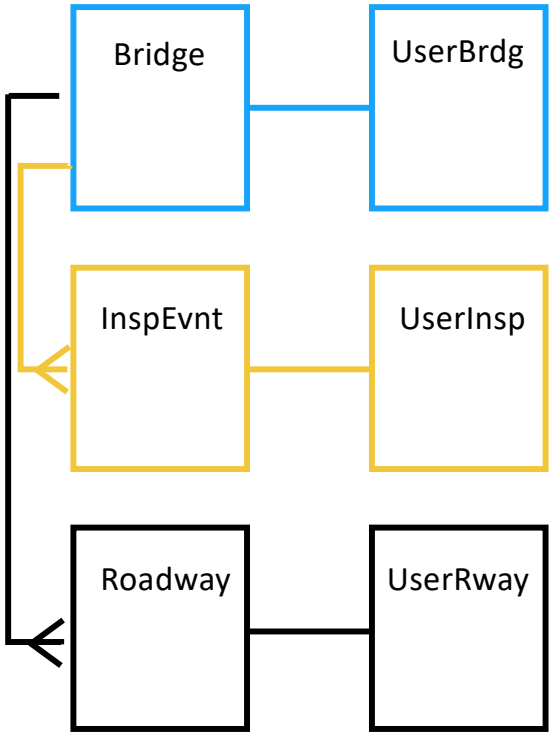

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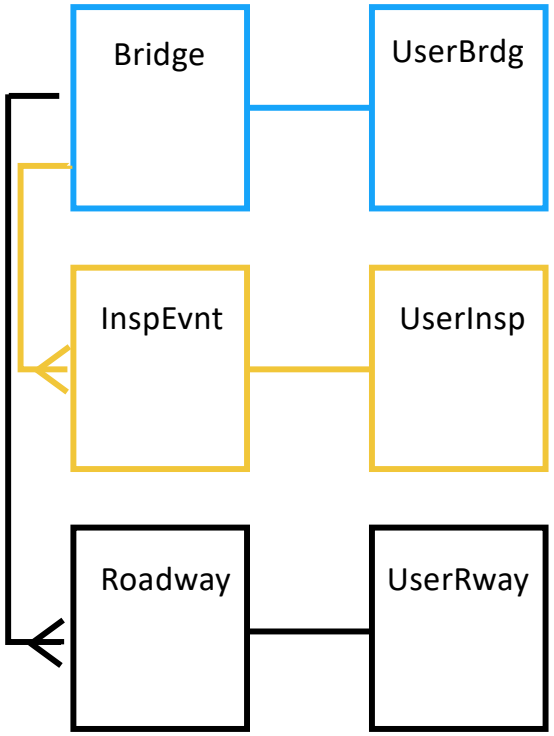
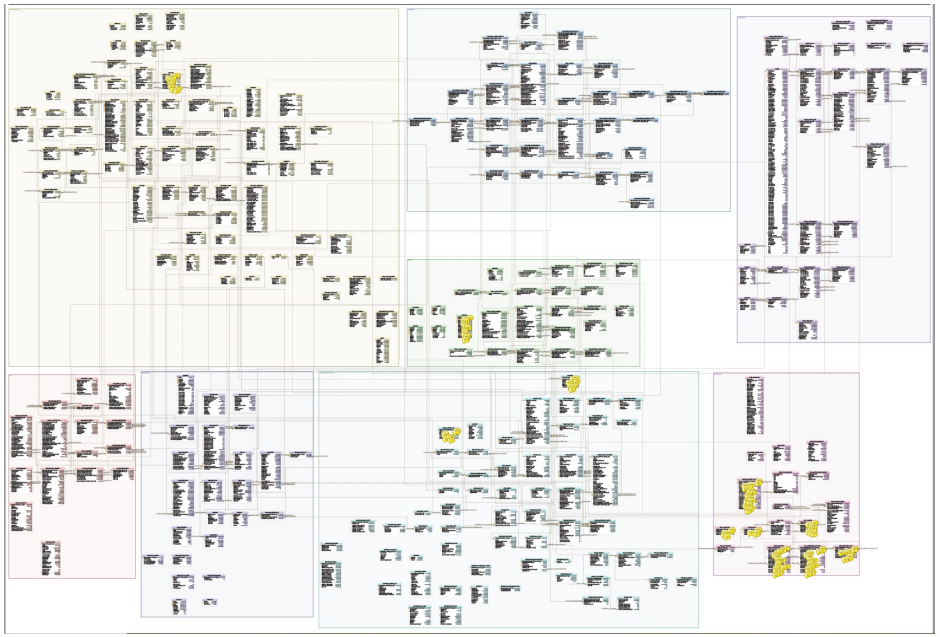
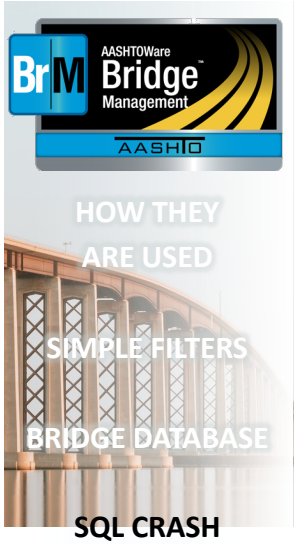
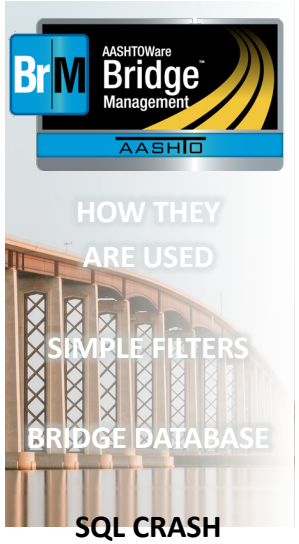


The BrM 6.5 ERD

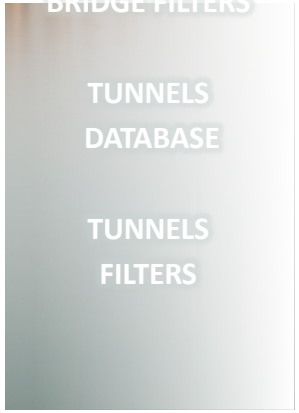




SQL – A CRASH COURSE



SQL CRASH COURSE

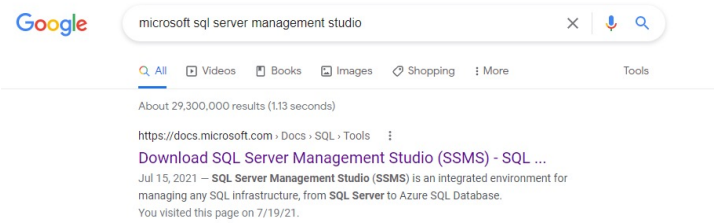


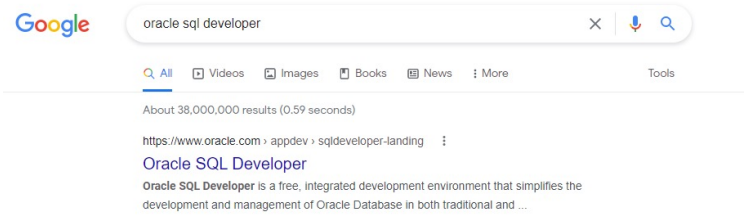
SQL – A CRASH COURSE

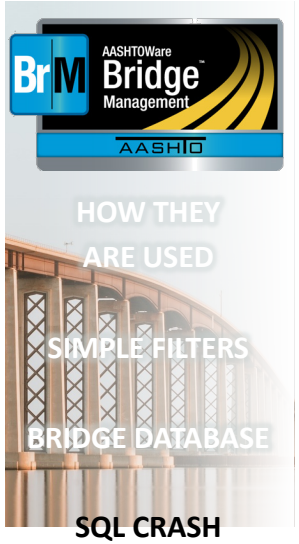
Microsoft® SQL Server®

SQL Server Management Studio (SSMS)

Oracle SQL Developer







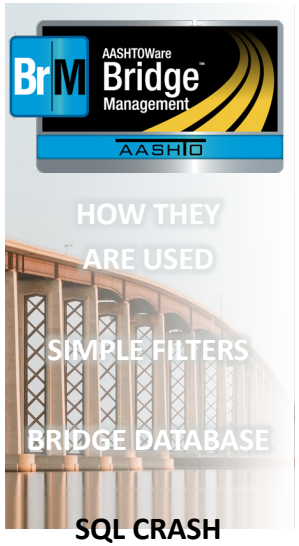
SQL – A CRASH COURSE

Microsoft SQL Server

SQL Server Management Studio (SSMS)

Oracle SQL Developer

You will need the database connection details and maybe a **login / password** from your IT department. It is possible to get a **read-only account** which can only read data from the database without any abilities to write changes to it.



SQL CRASH COURSE

BRIDGE FILTERS

TUNNELS DATABASE

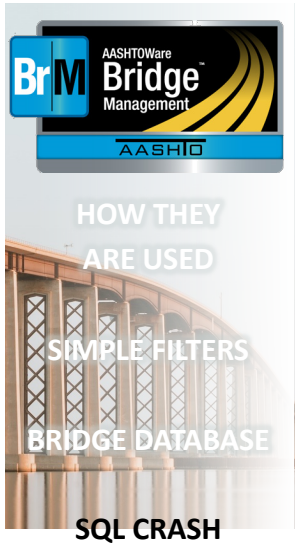
TUNNELS FILTERS

SQL – A CRASH COURSE

SELECT

FROM

WHERE

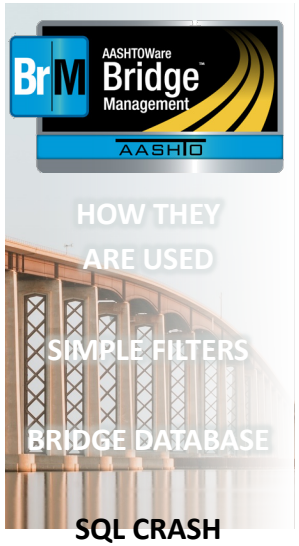


SQL – A CRASH COURSE

SELECT (what data you want. Comma separate the column names)

FROM (what tables or views is the data coming from, comma separated)

WHERE (conditions on what you want, like linking tables, latest inspections and on-records only. Use ‘and’ / ‘or’)



SQL CRASH COURSE

BRIDGE FILTERS

TUNNELS DATABASE

TUNNELS FILTERS

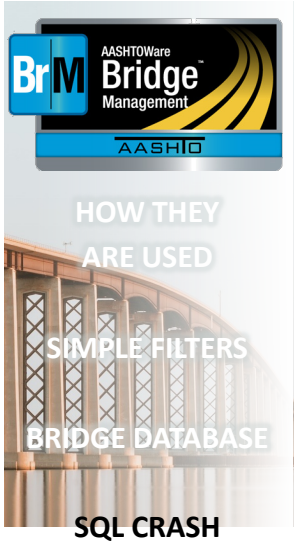
SQL – A CRASH COURSE

```
1  Select bridge_gd
2  , bridge_id
3  , strucname
4  , facility
5  , featint
6  from bridge
```

```
1  Select bridge_gd, bridge_id, strucname, facility, featint
2  from bridge
```

```
1  Select bridge_gd,
2  bridge_id,
3  strucname,
4  facility,
5  featint
6  from bridge
```

Tabs and returns are for your organizing and don't affect the code.



SQL CRASH COURSE

BRIDGE FILTERS

TUNNELS DATABASE

TUNNELS FILTERS

SQL – A CRASH COURSE

Execute Debug

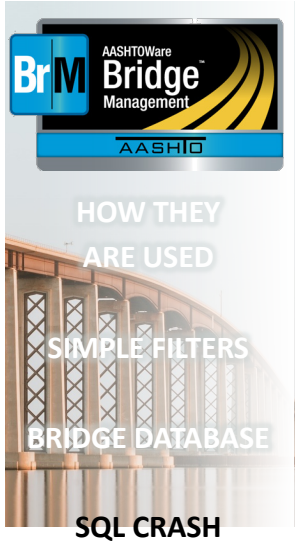
SQLQuery2.sql - de...eta2 (pontis (119))* SQLQuery1.sql - de...eta2 (pontis (115))*

```
1  Select bridge_gd,
2  bridge_id,
3  strucname,
4  facility,
5  featint
6  from bridge
```

211 %

Results Messages

	bridge_gd	bridge_id	strucname	facility	featint
1	003B8243342F417880AC9A58D39EC2D8	0760S1	Division	RI 401 DIVISION ST	RI 4 SB
2	003CCB6D48C34F1190FAB1A290F8D0AD	001101	C.L. Hussey Memorial	US 1A BSTN NCK RD	WICKFORD COVE
3	0053F8D9FDFE4C92B39CF37BC32D24D2	107101	Ramp WS	I-195 W to I-95 SB	Ramp SE,US 1,I-95 NB&SB
4	006E87F683604393AE0BF6AC9ADC28FF	000301	Apponaug	US 1 Post Rd	Apponaug River
5	00AAD2F9E95946319BD0314D7AC72B47	044101	Farnum Pike NB	RI 146 NB	RI 104 FARNUM PIKE
6	00E476A1FBA1490583592FA090B472B4	096601	Main Street	MAIN ST	BLACKSTONE RIVER
7	01E8B18A2BFF49AAB4F7BDB077F34E0D	021101	Turkey Hill	RI 114 Old W Main	Motts Brook
8	020AAD312950406A84B267315FC7BB4C	007001	Town Farm Culvert	RI 117 Flat Rvr Rd	Flat River
9	0221AEC60C1C427FAEA28FDF95E580AD	006801	Brown Brook	RI 102 Victory Hwy	Queens Fort Brook
10	025A8EBBC8C94F7098653C9CA03AEF8F	020101	Pontiac Ave	PONTIAC AV	POCASSET RIVER
11	02606613A7054E44B7F6A6CB3638B197	105001	Woonsocket StreamBed	BLCKSTN RVR BK FAC	DRY STREAM BED
12	02685C987FAA49E49D5E4A4F9F47708A	118701	F.C. Greene	F C GREENE MEM BVD	Elm Lake Brook
13	0294A4C23FC648939FE07854B638C1CC	065201	O'Connell Street	I-95 N&S & RAMP WS	O'CONNELL ST
14	033F9A5EF1EC4CDFBE64EACAFB7CABB4	076101	Middle Road	MIDDLE RD	RI 4
15	0342A064EDA741079A462133665E53C7	115601	Saugatucket Culvert	Saugatucket Rd	Saugatucket River
16	0353EC65B6F24A238696E5124B203C29	054501	Slater Street	SLATER ST	I-95 NB & SB
17	035F539230EB4D8F9E9051AD6B4DA3C0	090101	PROPOSED_Helm Street	UNASSIGNED	UNASSIGNED
18	03AEF735EB7A4C61A337C7B0173CEA67	049001	Pawtuxet River So. East	RI 2 NB BLD HLL RD	PAWTUXET RIVER
19	040F755588EE432B812DF277A89B1725	075521	Abbott Run Valley Rd SB	I-295 SB	ABBOTT RUN VALLEY RD



SQL CRASH COURSE

BRIDGE FILTERS

TUNNELS DATABASE

TUNNELS FILTERS

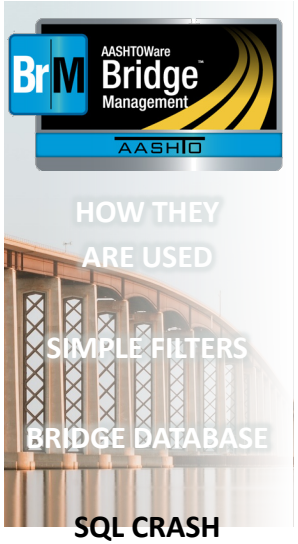
SQL – A CRASH COURSE

```
1  Select bridge.bridge_gd
2  , bridge_id
3  , strucname
4  , facility
5  , featint
6  , inspevnt_gd
7  , inspdate
8  , dkrating
9  , suprating
10 , subrating
11 from bridge
12 , inspevnt
13 where bridge.bridge_gd = inspevnt.bridge_gd
```

Bridge

Results Messages

bridge_gd	bridge_id	strucname	facility	featint	inspevnt_gd	inspdate	dkrating	suprating	subrating
8E9514F8897B4B62A54B70216D6F94A5	050001	Hamlet Avenue	RI 122 HAMLET AVE	BLACKSTONE RIVER	0015505D74C745DFA4A1089981930BB9	2012-04-25 00:00:00.000	5	5	3
7A47801D4FD84FB7B84C4E02BD2A12D5	030101	Arnold Mills	SNEECH POND RD	ABBOTT RUN	0016E0B5AE7C41B1BD79B6896BE7D25E	2008-10-13 00:00:00.000	6	3	6
C95F5A5123FE4721AEEAA89D5196F44B	075351	Leigh Road NB	I-295 NB	LEIGH RD	001D91066EDA4ED69165EAE627470E2A	2019-10-12 00:00:00.000	9	8	9
F93364D9F5174D21A3915EFF75A7187A	031901	Hartford Pike	RI 101 Hartford Pk	Rush Brook	001E4DB18A6E4B6AAD935048FDEA98AA	2005-01-13 00:00:00.000	N	N	N
481E1171DE0A432CA1B0DA736949D1CE	077401	Martin St Canal	MARTIN ST	BLACKSTONE CANAL	002D556CD9184C15B32D9619FE499D25	2011-09-21 00:00:00.000	7	7	7
48C4CA805BE94D829F1268AEE975B9EC	065101	Public Street	I-95 NB & SB	PUBLIC ST	002F562697574F668FAD34E12EAE7326	2018-12-19 00:00:00.000	6	5	5
9BC446827A09420695886ED3B00FF092	048121	Dillons Corner SB	US 1 SB POST RD	RI 108 KING RD&PT JDH RD	0031D820A7574305A9B029091491B894	2020-09-23 00:00:00.000	7	7	7
F9D366E4CF7A41BBAE05C617F5B17EDB	085401	Granite Quarry	RI 78 WEST BY-PASS	RI 3 ASHAWAY RD	0032D9305F3747E6B2EAD6F4FD2187C8	2009-01-29 00:00:00.000	7	6	6
5A0BBEF87F7E460F84038FCEF55844B4	109901	Morgan Ave	Morgan Av	Pocasset River	00386B76297E4EF9874CD810CFFB9B3A	2011-10-23 00:00:00.000	N	4	4
B54849847AEB4D6397DBC54D3140BD89	101101	Ramp BB Bridge	RI 403 Ramp BB	RampEE/W.DavisvilleRD/RR	003D7569A53D44B4AB0D306D7A1AD3DC	2017-06-07 00:00:00.000	7	7	7
DD9F87112A8145ACB8E1C7AB5C07D9A5	044601	Main Street	SCHOOL ST	RI 146 N SMITHFIELD EXP	00428C2FC45540B6872141AABEEF4DDB	2019-11-20 00:00:00.000	7	7	7
D6F94D9C4DC74B1B9A9B55D836459796	063201	Lincoln Park South	RI 37 EB	I-95 NB & SB	0045707DDEFD421C99A497747060FD96	2003-03-22 00:00:00.000	7	7	7
D72BFBC308134E2DA69EFA1EC4CEF2AE	097701	Geneva Pond	RI 7 DOUGLAS AV	WEST RIVER	00464374310E483D9C02FC5F380E6FF1	2013-05-13 00:00:00.000	6	4	5
0E3D1F53DFA84A4A858D1E2A65DC76C3	016301	Albion Trench	SCHOOL ST	OLD WORC & BOSTON CANAL	00470444852D4E10936C0E4B6BF8E74A	1995-07-21 00:00:00.000	8	8	6
8F0500AB1F3941A5B9EAD77C0DF35033	027401	Colvin Street	COLVIN ST	PAWTUXET RIVER N BRANCH	00494E1C9419425DB0DA9454527D539D	2002-09-03 00:00:00.000	7	5	7
D72847EBB60D474BA396BC28660DC2A6	108301	Ramp EI	I-195 Ramp EI	I-195 Ramp SME	004C31F58D454D8EAB242EC456867054	1901-01-01 00:00:00.000	9	9	9
C71D23A1514143C8B16A5DCBF1609F5A	113801	Belchers Cove Bridge	Market St	Belchers Cove	004F0B94407D4C33AD759E350135835B	2013-09-16 00:00:00.000	N	N	N
20A1890E101244EFB34A02277347DB43	071601	Culvert BC	I-95 N SERVICE RD	MOSHASSUCK RIVER	00509179EF5F49E1B49129DD03043B95	1996-08-16 00:00:00.000	N	N	N
5026DF69E3FB454BAFC2302EA106DAC4	021301	Spears	RI 94 FOSTER CTRRD	HEMLOCK BROOK	005139F8719848CFB50BA93DB2BFD7EC	2015-03-09 00:00:00.000	6	5	5



SQL CRASH COURSE

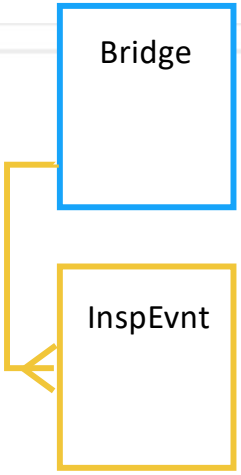
BRIDGE FILTERS

TUNNELS DATABASE

TUNNELS FILTERS

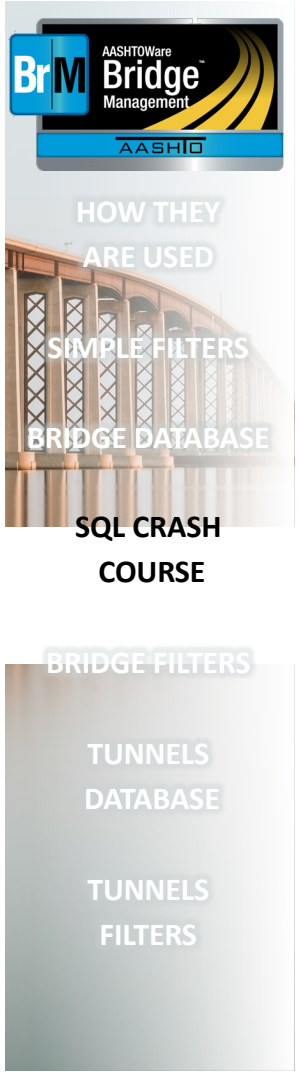
SQL – A CRASH COURSE

```
1  Select b.bridge_gd
2  , bridge_id
3  , strucname
4  , facility
5  , featint
6  , inspevnt_gd
7  , inspdate
8  , dkrating
9  , suprating
10 , subrating
11 from bridge b
12 , inspevnt  i
13 where b.bridge_gd = i.bridge_gd
```



Results | Messages

bridge_gd	bridge_id	strucname	facility	featint	inspevnt_gd	inspdate	dkrating	suprating	subrating
8E9514F8897B4B62A54B70216D6F94A5	050001	Hamlet Avenue	RI 122 HAMLET AVE	BLACKSTONE RIVER	0015505D74C745DFA4A1089981930BB9	2012-04-25 00:00:00.000	5	5	3
7A47801D4FD84FB7B84C4E02BD2A12D5	030101	Arnold Mills	SNEECH POND RD	ABBOTT RUN	0016E0B5AE7C41B1BD79B6896BE7D25E	2008-10-13 00:00:00.000	6	3	6
C95F5A5123FE4721AEEAA89D5196F44B	075351	Leigh Road NB	I-295 NB	LEIGH RD	001D91066EDA4ED69165EAE627470E2A	2019-10-12 00:00:00.000	9	8	9
F93364D9F5174D21A3915EFF75A7187A	031901	Hartford Pike	RI 101 Hartford Pk	Rush Brook	001E4DB18A6E4B6AAD935048FDEA98AA	2005-01-13 00:00:00.000	N	N	N
481E1171DE0A432CA1B0DA736949D1CE	077401	Martin St Canal	MARTIN ST	BLACKSTONE CANAL	002D556CD9184C15B32D9619FE499D25	2011-09-21 00:00:00.000	7	7	7
48C4CA805BE94D829F1268AEE975B9EC	065101	Public Street	I-95 NB & SB	PUBLIC ST	002F562697574F668FAD34E12EAE7326	2018-12-19 00:00:00.000	6	5	5
9BC446827A09420695886ED3B00FF092	048121	Dillons Corner SB	US 1 SB POST RD	RI 108 KING RD&PT JDH RD	0031D820A7574305A9B029091491B894	2020-09-23 00:00:00.000	7	7	7
F9D366E4CF7A41BBAE05C617F5B17EDB	085401	Granite Quarry	RI 78 WEST BY-PASS	RI 3 ASHAWAY RD	0032D9305F3747E6B2EAD6F4FD2187C8	2009-01-29 00:00:00.000	7	6	6
5A0BBEF87F7E460F84038FCEF55844B4	109901	Morgan Ave	Morgan Av	Pocasset River	00386B76297E4EF9874CD810CFFB9B3A	2011-10-23 00:00:00.000	N	4	4
B54849847AEB4D6397DBC54D3140BD89	101101	Ramp BB Bridge	RI 403 Ramp BB	RampEE/W.DavisvilleRD/RR	003D7569A53D44B4AB0D306D7A1AD3DC	2017-06-07 00:00:00.000	7	7	7
DD9F87112A8145ACB8E1C7AB5C07D9A5	044601	Main Street	SCHOOL ST	RI 146 N SMITHFIELD EXP	00428C2FC45540B6872141AABEEF4DDB	2019-11-20 00:00:00.000	7	7	7
D6F94D9C4DC74B1B9A9B55D836459796	063201	Lincoln Park South	RI 37 EB	I-95 NB & SB	0045707DDEFD421C99A497747060FD96	2003-03-22 00:00:00.000	7	7	7
D72BFBC308134E2DA69EFA1EC4CEF2AE	097701	Geneva Pond	RI 7 DOUGLAS AV	WEST RIVER	00464374310E483D9C02FC5F380E6FF1	2013-05-13 00:00:00.000	6	4	5
0E3D1F53DFA84A4A858D1E2A65DC76C3	016301	Albion Trench	SCHOOL ST	OLD WORC & BOSTON CANAL	00470444852D4E10936C0E4B6BF8E74A	1995-07-21 00:00:00.000	8	8	6
8F0500AB1F3941A5B9EAD77C0DF35033	027401	Colvin Street	COLVIN ST	PAWTUXET RIVER N BRANCH	00494E1C9419425DB0DA9454527D539D	2002-09-03 00:00:00.000	7	5	7
D72847EBB60D474BA396BC28660DC2A6	108301	Ramp EI	I-195 Ramp EI	I-195 Ramp SME	004C31F58D454D8EAB242EC456867054	1901-01-01 00:00:00.000	9	9	9
C71D23A1514143C8B16A5DCBF1609F5A	113801	Belchers Cove Bridge	Market St	Belchers Cove	004F0B94407D4C33AD759E350135835B	2013-09-16 00:00:00.000	N	N	N
20A1890E101244EFB34A02277347DB43	071601	Culvert BC	I-95 N SERVICE RD	MOSHASSUCK RIVER	00509179EF5F49E1B49129DD03043B95	1996-08-16 00:00:00.000	N	N	N
5026DF69E3FB454BAFC2302EA106DAC4	021301	Spears	RI 94 FOSTER CTRRD	HEMLOCK BROOK	005139F8719848CFB50BA93DB2BFD7EC	2015-03-09 00:00:00.000	6	5	5



SQL CRASH COURSE

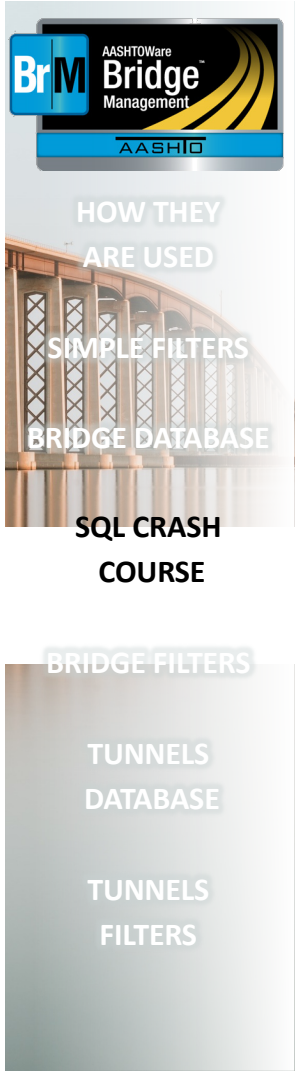
SQL – A CRASH COURSE

```
1  Select b.bridge_gd
2  , bridge_id
3  , strucname
4  , facility
5  , featint
6  , inspevnt_gd
7  , inspdate
8  , dkrating
9  , suprating
10 , subrating
11 from bridge b
12 , inspevnt  i
13 where b.bridge_gd = i.bridge_gd
14 order by bridge_id, inspdate asc
```

Sort, or “order”, my results a certain way.

Messages

bridge_gd	bridge_id	strucname	facility	featint	inspevnt_gd	inspdate	dkrating	suprating	subrating
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	69E452CC47F340E39E7D8010DE999CE9	1997-07-25 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	6BA559D740A74D9A808638932BC8C68E	1997-07-25 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	797217D7F1CC4B7F95146D539BF5380C	1997-07-25 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	FFCBAAE27E5244E2929ACAF9C6B71239	1997-07-25 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	4E60E24DF37C421AB78BFABFFBFC02C0	1998-06-05 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	4A9C2A98BF8E466FB6367A05A9031BBA	1999-10-27 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	5A2403DE0B45408BB4D419AAF6485493	2003-10-27 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	71BB209975694143B12BC629E4FA5534	2005-05-10 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	A9502A86E6E447D98F0D7A4F594548B2	2006-09-12 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	9A5192ED37804DBF9BF3C48BB3CBC488	2008-10-09 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	B7CEB12A1AFA4BE3864A632E9F913104	2009-05-11 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	F67AF4D939544715B17F75500527E049	2010-10-07 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	4A35F6D955C94E428ABA2B8623657A03	2012-10-04 00:00:00.000	N	5	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	7D4682E663EE4D4FA131E354318933CD	2013-02-19 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	2962F91847BE4A09B110F8CBECC22077	2014-09-22 00:00:00.000	N	6	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	32384C931B464ED0A97A9B9F57F253C3	2016-09-12 00:00:00.000	N	5	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	B4F0965AE2544E53B51A203D7D7A163D	2018-09-05 00:00:00.000	N	5	6
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	54E274F84EA346E0891368BF7EC7EF91	2020-09-03 00:00:00.000	N	5	6
589DB45C29B8409BB4B9B64FF165828C	000201	Greenwood RR	RI 113 MAIN AV	AMTRAK	929C7F33E0944A308B2EE5638D138348	1997-07-24 00:00:00.000	4	4	4
589DB45C29B8409BB4B9B64FF165828C	000201	Greenwood RR	RI 113 MAIN AV	AMTRAK	67D2BC4B8DCD41579F528211AB49CF0D	1999-03-25 00:00:00.000	4	4	4
589DB45C29B8409BB4B9B64FF165828C	000201	Greenwood RR	RI 113 MAIN AV	AMTRAK	E5E6FC627531426292236EE4A31C87EA	2007-02-13 00:00:00.000	8	8	8
589DB45C29B8409BB4B9B64FF165828C	000201	Greenwood RR	RI 113 MAIN AV	AMTRAK	38A25B8C6FEC42C5B66479E0F6C863B0	2007-11-02 00:00:00.000	8	8	8
589DB45C29B8409BB4B9B64FF165828C	000201	Greenwood RR	RI 113 MAIN AV	AMTRAK	C56A02DC90FB49849D792585D8DE908D	2009-11-02 00:00:00.000	7	7	7



SQL – A CRASH COURSE

```
1  Select b.bridge_gd
2   , bridge_id
3   , strucname
4   , facility
5   , featint
6   , inspevnt_gd
7   , inspdate
8   , dkrating
9   , suprating
10  , subrating
11  from bridge b
12  , inspevnt  i
13  where b.bridge_gd = i.bridge_gd
14  and inspdate = (select MAX(inspdate)
15                  From inspevnt i2
16                  where i2.BRIDGE_GD = b.BRIDGE_GD)
17  order by bridge_id, inspdate asc
```

Just the latest inspection.

Results | Messages

bridge_gd	bridge_id	strucname	facility	featint	inspevnt_gd	inspdate	dkrating	suprating	subrating
502E48DCEC2D49A5A79C3FCBFC532288	000101	Elmwood Ave Bridge	US 1 ELMWOOD AV	PAWTUXET RIVER	54E274F84EA346E0891368BF7EC7EF91	2020-09-03 00:00:00.000	N	5	6
589DB45C29B8409BB4B9B64FF165828C	000201	Greenwood RR	RI 113 MAIN AV	AMTRAK	42AF1B24FFD1418B853F7AE0413C845D	2019-10-24 00:00:00.000	7	5	7
006E87F683604393AE0BF6AC9ADC28FF	000301	Apponaug	US 1 Post Rd	Apponaug River	58EC502037024AFFBCB2078EBAD8B9CC	2019-08-27 00:00:00.000	7	7	7
9EA18129FC30426FADAA389E68A8461F	000401	Bleachery	US 1 Post Rd	Bleachery Brook	C9BE97AB526344AC8FD12FE6E21E6CA2	2020-07-16 00:00:00.000	N	5	6
295BEF26EBA2425BA2B5B9D89FBFA0EB	000501	Nelson Brook	US 1 Post Rd	Nelson Brook	38B5AA840C954A28AD5E765BE92C1F6B	2019-09-13 00:00:00.000	N	N	N
D95E9B13399848D4B66A1B953AF6B226	000601	Hunt River	US 1 POST RD SB	HUNT RIVER	D0C8929753DB446F8DD5CE61F22ACCDC	2019-11-05 00:00:00.000	6	6	5
BA244F2C61BC45988D245251989F038D	000701	Hunt River RR	US 1 POST RD	AMTRAK	95D8A67C3DF4464D86EE76E131FF24A1	2019-09-04 00:00:00.000	7	7	7
E82E927C47314D18ADD87D8A0AF6FC88	000801	Sandhill	Chadsey Rd	Sandhill Brook	E4A063150FB349EFAD91BCA4522085D8	2018-09-27 00:00:00.000	N	6	5
7C6E074F2EBF413BA5D1723811A5DE8B	000901	Babbitt Farm	US 1 Post Rd	Cocumcussoc Brook	36631DA1BBDD4515A65710E945674123	2019-11-21 00:00:00.000	N	N	N
F00DC9A1B7454EBDAD2AC995046E6E2A	001001	Wickford	US 1A Brown St	Academy Cove	A1EEC7EF04A64ED0ABC6C3DDD3AA9B9F	2019-12-06 00:00:00.000	5	5	5
003CCB6D48C34F1190FAB1A290F8D0AD	001101	C.L. Hussey Memorial	US 1A BSTN NCK RD	WICKFORD COVE	2CB250D583A14ABD9FBBD3F9AE1FC405	2020-09-11 00:00:00.000	6	5	5
6FCAF459588543479E8BC8CEC28DCD4E	001201	Hamilton Mill	US 1A Bstn Nck Rd	Annaquatucket River	04508AF94052422782C44AE3DFA79A36	2019-08-27 00:00:00.000	6	6	5
B501208C928A466AB21573610C8C498F	001301	Hamilton Canal	US 1A Bstn Nck Rd	Mill Canal	1D30AD8440574383A215882BF7A78B3A	2019-11-15 00:00:00.000	N	N	N
625592B414B54FD5BBADA3893D0FAE1C	001401	Middle Bridge	MIDDLE BRIDGE RD	PETTAQUAMSCUTT RIVER	F900190270C74F639A10E8106 12B6D8A	2020-03-14 00:00:00.000	7	6	6
87FA3C2246574E1281CCCB12186CB247	001501	Austin Farm	US 1 POST RD NB	HUNT RIVER	EC018E2543FC402EB4A7514E87F73A65	2019-11-05 00:00:00.000	6	6	6
D1C57BDCE5DB4631B30472C3E39D9D1C	001601	Sandhill Pond	US 1 Post Rd	Sandhill Pond	020E62CDC8BB461EAE7B79209D1DB2AE	2019-09-26 00:00:00.000	6	6	5
BEA69D9F114C49ECB3B95F1F7D5DF038	001701	Governor Sprague	US 1A BSTN NCK RD	NARROW RIVER	58CDB2FE9DA04ABCA8A65D327E9DE4A6	2020-10-02 00:00:00.000	6	5	6
68F77E60E5E1491DA232BF0ABF7323BE	001801	Narragansett Mill	US 1 TOWER HILL RD	ANNAQUATUCKET RIVER	690F375832D342CAB7DE1760A1FFBF4F	2019-11-30 00:00:00.000	N	N	N
4F84D8357023471098C919540A7049DB	001901	Silver Spring Mill	US 1 Tower Hill Rd	Silver Spring Brook	116DEB44552A4EE18A774D8E598E0B4E	2019-10-24 00:00:00.000	N	N	N

SIMPLE FILTERS & LAYOUTS

HOW THEY ARE USED

SIMPLE FILTERS

BRIDGE DATABASE

SQL CRASH COURSE

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TUNNELS DATABASE

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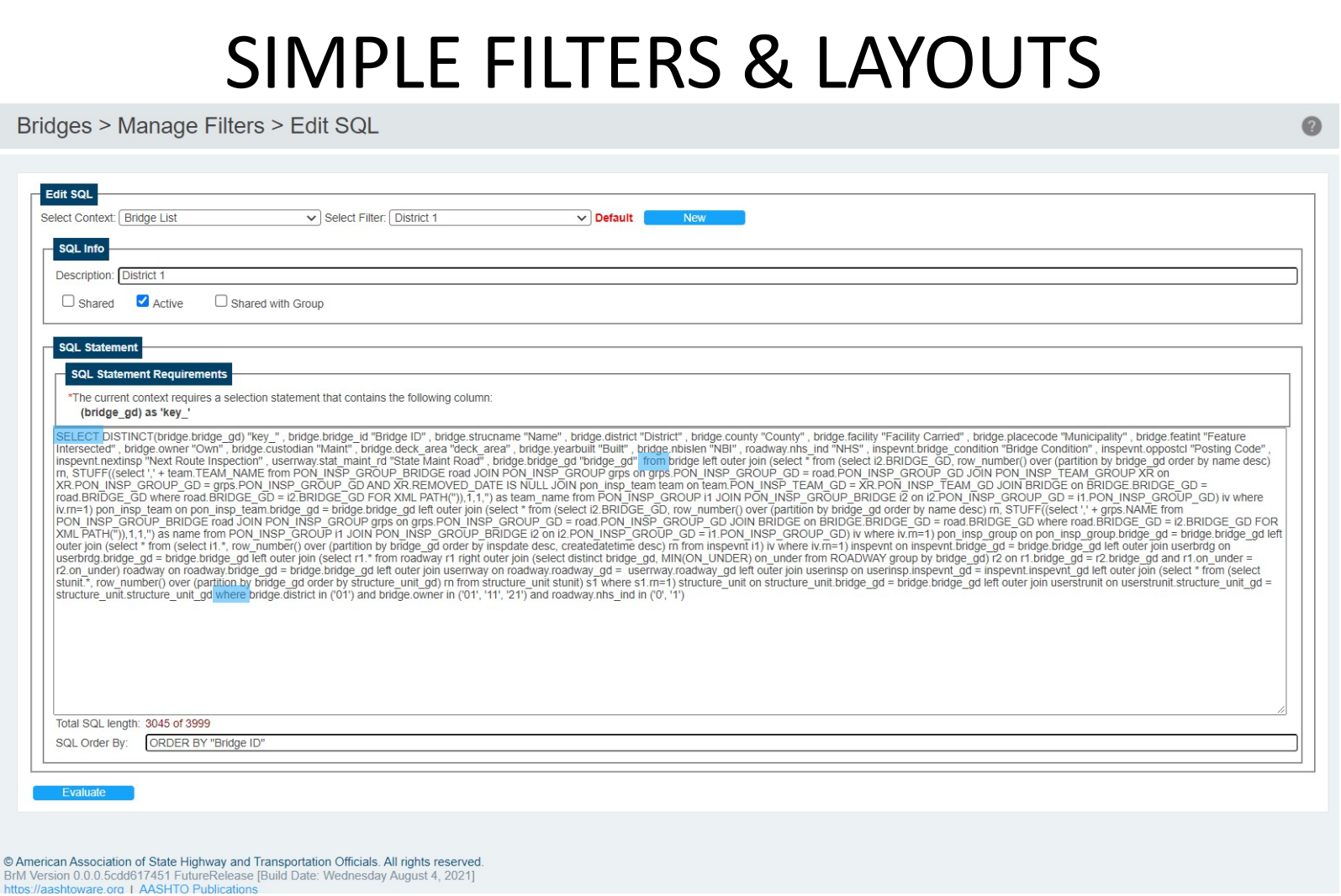
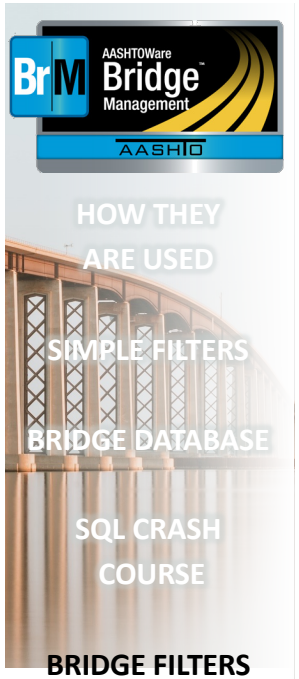


BrM Version 0.0.0.5cdd617451 FutureRelease [Build Date: Wednesday August 4, 2021]
https://aashtoware.org | AASHTO Publications



BRIDGE FILTERS

BRIDGE FILTERS

HOW THEY ARE USED

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BRIDGE DATABASE

SQL CRASH COURSE

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TUNNELS DATABASE

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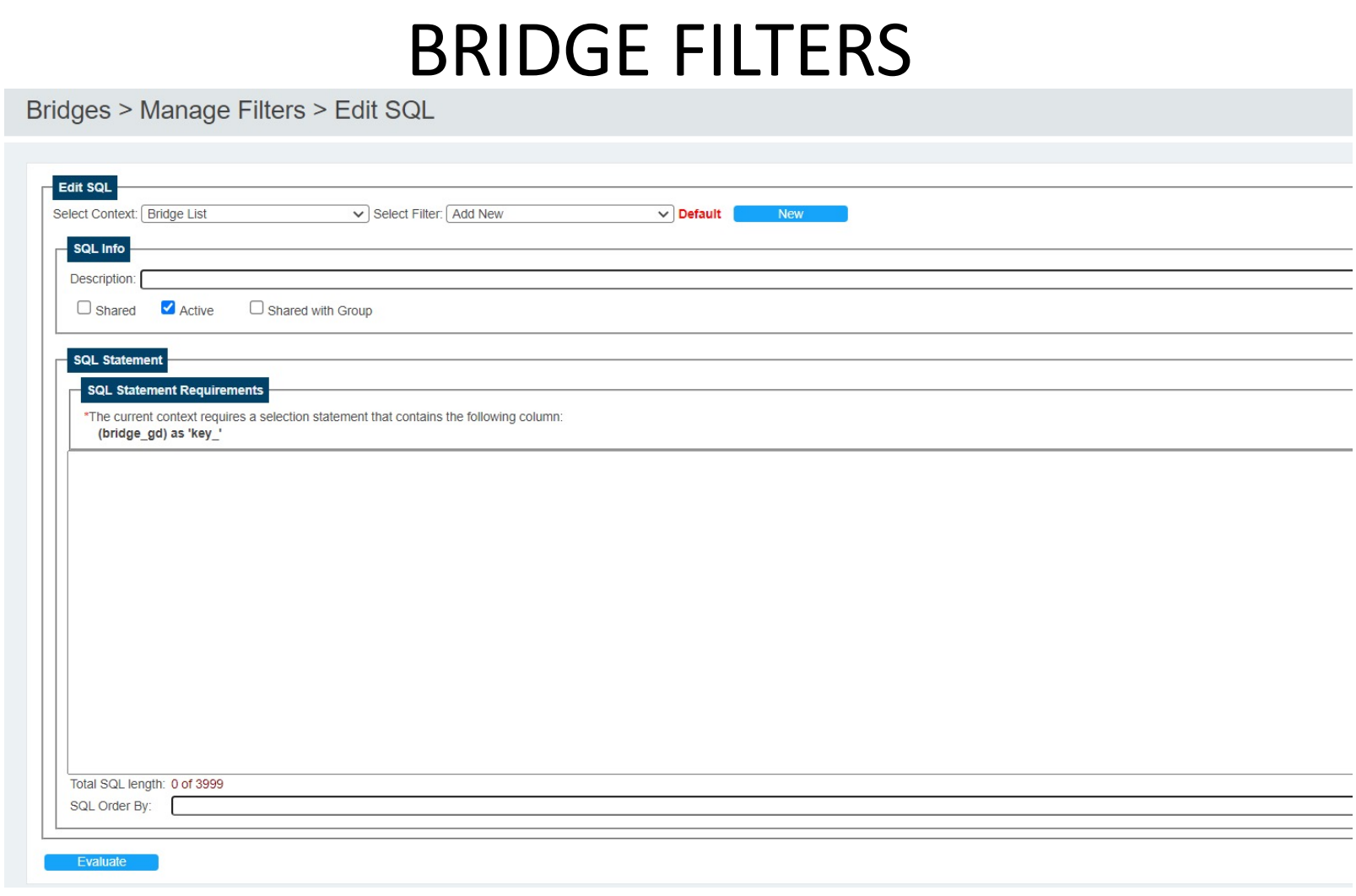
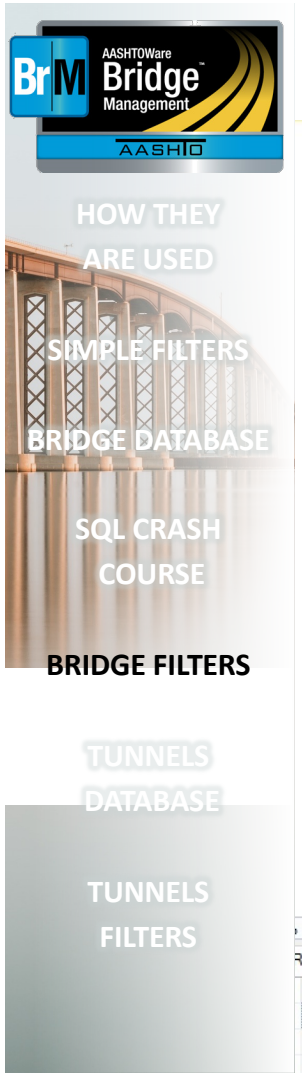




BRIDGE FILTERS

```sql
Select b.bridge_gd as 'key_'
, bridge_id
, strucname
, facility
, featint
--, inspevnt_gd
, inspdate
, nextinsp
, elnextdate
, uwnextdate
, fcnextdate
, osnextdate
from bridge b
, inspevnt  i
where b.bridge_gd = i.bridge_gd
and inspdate = (select MAX(inspdate)
                From inspevnt i2
                where i2.BRIDGE_GD = b.BRIDGE_GD)
and   (i.nextinsp   < '2022-03-01' and i.nextinsp   > '2022-01-31'
    or i.elnextdate < '2022-03-01' and i.elnextdate > '2022-01-31'
    or i.uwnextdate < '2022-03-01' and i.uwnextdate > '2022-01-31'
    or i.fcnextdate < '2022-03-01' and i.fcnextdate > '2022-01-31'
    or i.osnextdate < '2022-03-01' and i.osnextdate > '2022-01-31'
)
order by bridge_id, inspdate asc
```

Commented out.

(Oracle has a different date format)

Results | Messages

key_	bridge_id	strucname	facility	featint	inspdate	nextinsp	elnextdate	uwnext
48E173FB20F34A54AC11C36B691E1B24	007101	Flat River	RI 117 FLAT RVR RD	FLAT RIVER RESERVOIR	2019-12-10 00:00:00.000	2021-10-24 00:00:00.000	2021-10-24 00:00:00.000	2022-
DC7D0BBD8A4B46B097A13F29FE2A6442	013201	Bailey Brook	RI 138 E Main Rd	Bailey Brook	2020-02-19 00:00:00.000	2022-02-19 00:00:00.000	2022-02-19 00:00:00.000	1901-
A70F89BB9D66401E92C53E004EDA937A	027651	Louisquisset Pike	RI 146NB EDDOWLHWY	RI 116 GEORGE WASH HWY	2020-02-06 00:00:00.000	2022-02-06 00:00:00.000	2022-02-06 00:00:00.000	1901-

BRIDGE FILTERS

SQL Statement

SQL Statement Requirements

*The current context requires a selection statement that contains the following column:
(bridge_gd) as 'key_'

This is important.

```
Select b.bridge_gd as 'key_'
, bridge_id
, strucname
, facility
, featint
--, inspevnt_gd
, inspdate
, nextinsp
, elnextdate
, uwnextdate
, fcnextdate
, osnextdate
from bridge b
, inspevnt  i
where b.bridge_gd = i.bridge_gd
and inspdate = (select MAX(inspdate)
                        From inspevnt i2
                        where i2.BRIDGE_GD = b.BRIDGE_GD)
and   (i.nextinsp   < '2022-03-01' and i.nextinsp   > '2022-01-31'
      or i.elnextdate < '2022-03-01' and i.elnextdate > '2022-01-31'
      or i.uwnextdate < '2022-03-01' and i.uwnextdate > '2022-01-31'
      or i.fcnextdate < '2022-03-01' and i.fcnextdate > '2022-01-31'
      or i.osnextdate < '2022-03-01' and i.osnextdate > '2022-01-31'
```

Total SQL length: 646 of 3999

SQL Order By:

SQL Statement does not follow rules for SQL Requirement. Please review the required columns.

Evaluate

BRIDGE FILTERS

SQL Statement

SQL Statement Requirements

*The current context requires a selection statement that contains the following column:
(bridge_gd) as 'key_'

```
Select distinct(b.bridge_gd) as 'key_'
, bridge_id
, strucname
, facility
, featint
--, inspevnt_gd
, inspdate
, nextinsp
, elnextdate
, uwnextdate
, fcnextdate
, osnextdate
from bridge b
, inspevnt  i
where b.bridge_gd = i.bridge_gd
and inspdate = (select MAX(inspdate)
                From inspevnt i2
                where i2.BRIDGE_GD = b.BRIDGE_GD)
and   (i.nextinsp   < '2022-03-01' and i.nextinsp   > '2022-01-31'
      or i.elnextdate < '2022-03-01' and i.elnextdate > '2022-01-31'
      or i.uwnextdate < '2022-03-01' and i.uwnextdate > '2022-01-31'
      or i.fcnextdate < '2022-03-01' and i.fcnextdate > '2022-01-31'
      or i.osnextdate < '2022-03-01' and i.osnextdate > '2022-01-31'
```

Total SQL length: 656 of 3999

SQL Order By:

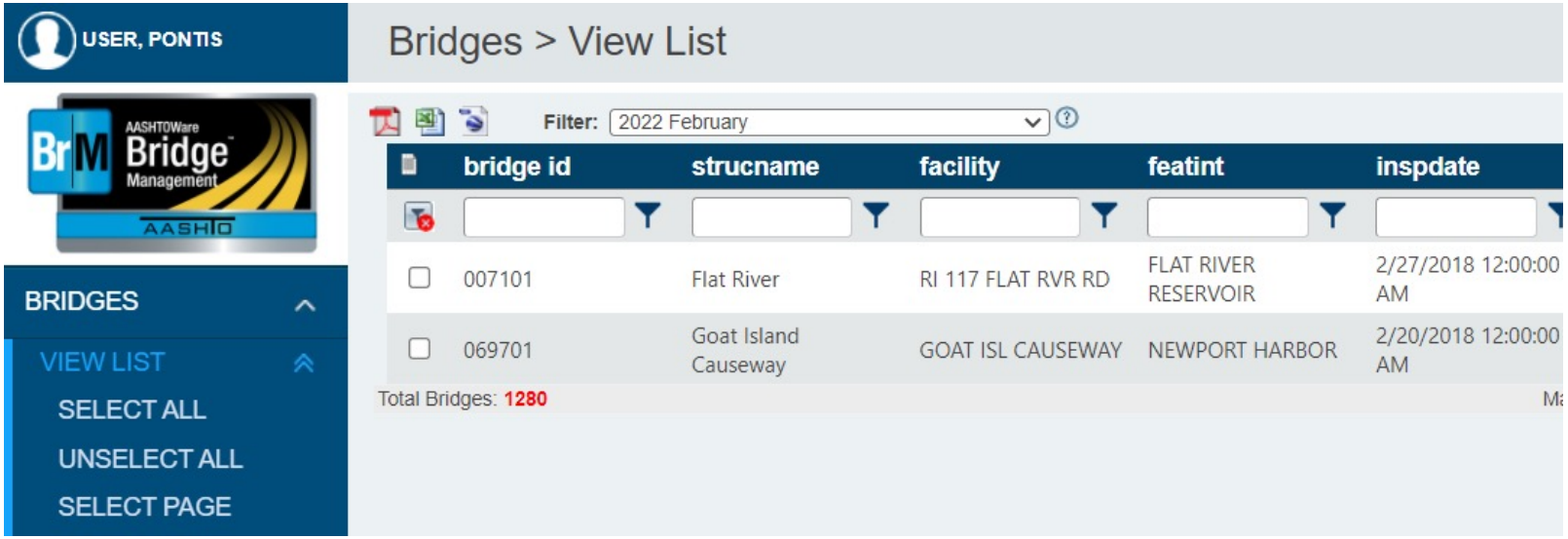
SQL Result Sample

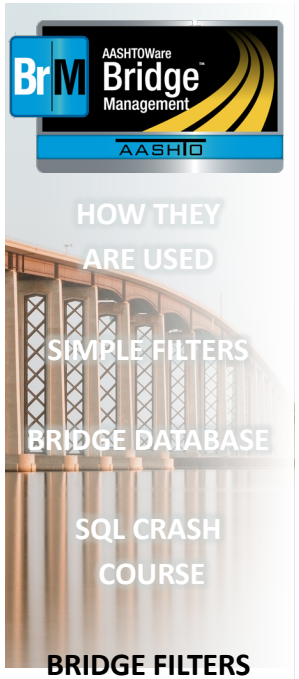
key_	bridge_id	strucname	facility	featint	inspdate	nextinsp	elnextdate	uwnextdate	fc
48E173FB20F34A54AC11C36B691E1B24	007101	Flat River	RI 117 FLAT RVR RD	FLAT RIVER RESERVOIR	2/27/2018 12:00:00 AM	2/27/2020 12:00:00 AM	2/27/2020 12:00:00 AM	2/27/2022 12:00:00 AM	1/1 12:
C80BB6CC63444B6B83C12B93076640E3	069701	Goat Island Causeway	GOAT ISL CAUSEWAY	NEWPORT HARBOR	2/20/2018 12:00:00 AM	2/20/2019 12:00:00 AM	2/20/2019 12:00:00 AM	2/22/2022 12:00:00 AM	1/1 12:

1 Page size: 5

Evaluate

BRIDGE FILTERS





BRIDGE FILTERS

```
1  select (b.bridge_gd) as key_
2  , b.bridge_id
3  , lr.CURRENT_RATING
4  , v.VEHICLE_NAME
5  , lr.load_factor
6  , lr.load_tons
7  , lr.limit_state
8  , lr.notes
9  from bridge b
10 , LOAD_RATINGS lr
11 , LR_vehicle_defs v
12 where b.bridge_gd = lr.bridge_gd
13 and lr.lr_vehicle_defs_gd = v.LR_VEHICLE_DEFS_GD
14 and v.vehicle_name = 'HS-20 Inventory'
15 and lr.CURRENT_RATING = 'T'
16 order by bridge_id asc
```

Table alias.

Messages

key_	bridge_id	CURRENT_RATING	VEHICLE_NAME	load_factor	load_tons	limit_state	notes
2A37DEB2E4CD4E9DABF9047B69D476F6	000002	T	HS-20 Inventory	NULL	2	NULL	NULL
95F1C89E1254453CBB177F8680997DF9	000003	T	HS-20 Inventory	0.00	4	0	NULL
AB0F64A91D3844F7A7B0119824B64FA7	000004	T	HS-20 Inventory	0.00	0	NULL	NULL
90C18DA10C12413180348CDAC3DC640F	000005	T	HS-20 Inventory	0.00	1	0	NULL
2DF3746BB1904A4780DFED3F7A10A824	000006	T	HS-20 Inventory	0.00	1.8	NULL	NULL
61949F5ADA4E4B86BFB0DCC3B17DBBDD	000008	T	HS-20 Inventory	NULL	10.5	NULL	NULL
F7701481FAF048EF8E79753DA433E2EA	000009	T	HS-20 Inventory	NULL	4	NULL	NULL
4AB8DD85E09144F68750C8A39A55BA1E	000010	T	HS-20 Inventory	NULL	0	NULL	NULL
0A6CDC88DE4441E2A55696E18E040B18	000011	T	HS-20 Inventory	NULL	13	NULL	NULL

BRIDGE FILTERS

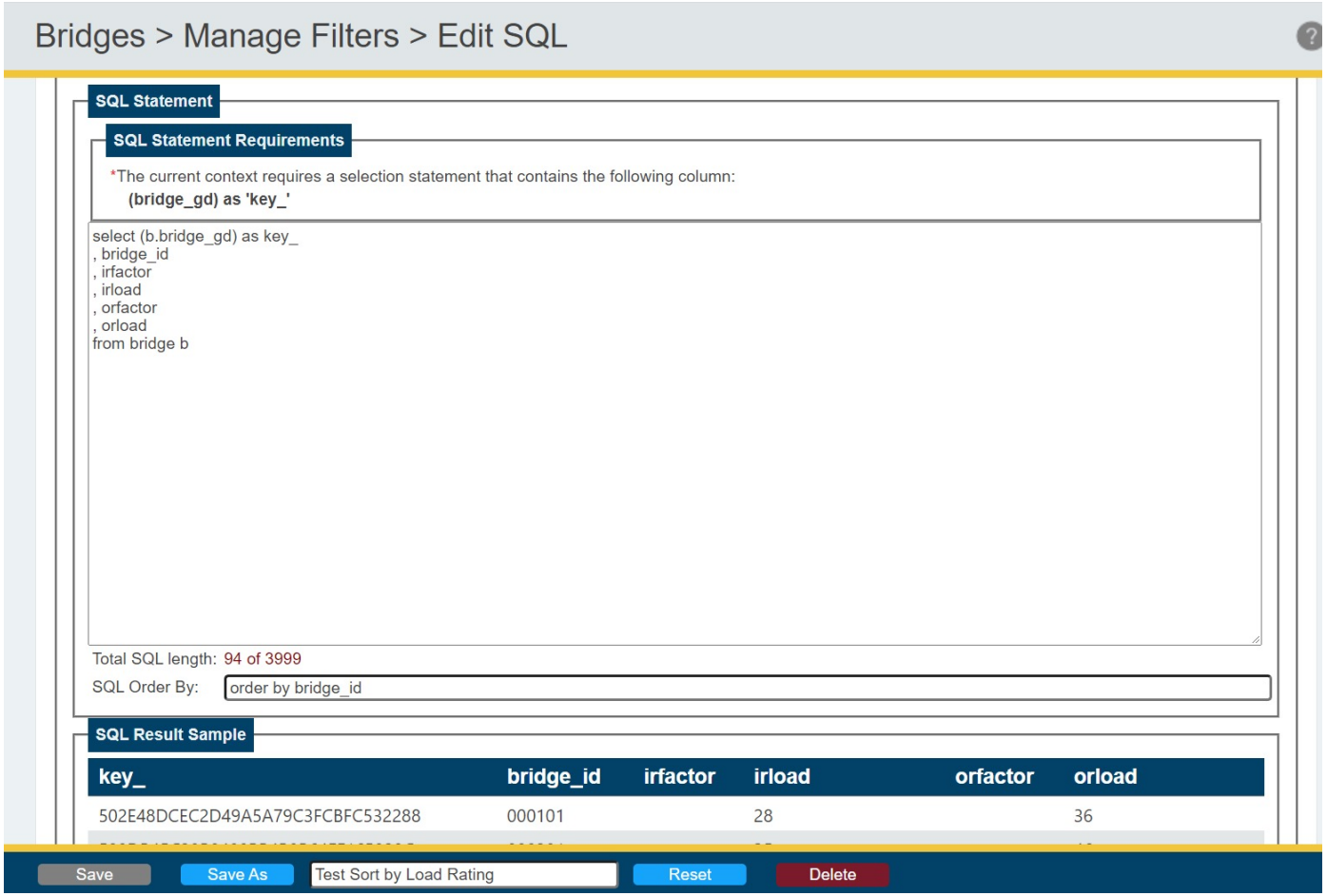
```sql
select (b.bridge_gd) as key_
, b.bridge_id
, lr.CURRENT_RATING
, v.VEHICLE_NAME
, lr.load_factor
, lr.load_tons
, lr.limit_state
, lr.notes
from bridge b
, LOAD_RATINGS lr
, LR_vehicle_defs v
where b.bridge_gd = lr.bridge_gd
and lr.lr_vehicle_defs_gd = v.LR_VEHICLE_DEFS_GD
and v.vehicle_name = 'HS-20 Inventory'
and lr.CURRENT_RATING = 'T'
order by bridge_id asc
```

key_	bridge_id	CURRENT_RATING	VEHICLE_NAME	load_factor	load_tons		
2A37DEB2E4CD4E9DABF9047B69D476F6	000002	T	HS-20 Inventory	NULL	2	NULL	NULL
95F1C89E1254453CBB177F8680997DF9	000003	T	HS-20 Inventory	0.00	4	0	NULL
AB0F64A91D3844F7A7B0119824B64FA7	000004	T	HS-20 Inventory	0.00	0	NULL	NULL
90C18DA10C12413180348CDAC3DC640F	000005	T	HS-20 Inventory	0.00	1	0	NULL
2DF3746BB1904A4780DFED3F7A10A824	000006	T	HS-20 Inventory	0.00	1.8	NULL	NULL
61949F5ADA4E4B86BFB0DCC3B17DBBDD	000008	T	HS-20 Inventory	NULL	10.5	NULL	NULL
F7701481FAF048EF8E79753DA433E2EA	000009	T	HS-20 Inventory	NULL	4	NULL	NULL
4AB8DD85E09144F68750C8A39A55BA1E	000010	T	HS-20 Inventory	NULL	0	NULL	NULL
0A6CDC88DE4441E2A55696E18E040B18	000011	T	HS-20 Inventory	NULL	13	NULL	NULL

```sql
select (b.bridge_gd) as key_
, bridge_id
, irfactor
, irload
, orfactor
, orload
from bridge b
```

key_	bridge_id	irfactor	irload	orfactor	orload
0000A619217C4B1485ED2B560ECF1CD3	014094	0.00	73.699995740669	0.00	97.99
0002244CE0854BFEA8108BB097BF5F79	000458	0.00	34.9	0.00	58.2
00037D94A79D4BE8A5E8461F3EEB09EB	003047	0.00	10.8999961992305	0.00	18.09
0003B5426CEF430585CE7D89E05FCEA5	004738	0.00	0	0.00	0
000680F37300497FA09DE0B26E1DE7B6	018046	0.00	15.4999965166962	0.00	21.70
000955AA749749F498990BB7B29749BC	018189	0.00	70.1000012434072	0.00	97.99
000BA76C5DDA4DE4AB4C652BB337E251	009875	0.00	39.9	0.00	65.9
000D5506A5E340B7B239BA83F2C0AD74	009640	0.00	97.999997178083	0.00	97.99
001037EA964442AABCC8E1B3F88AE658	019922	0.00	38.7	0.00	64.6
00165CFB8B7A47039026DDF8424E0911	019199	0.00	51.2	0.00	85.4

BRIDGE FILTERS



BRIDGE FILTERS

```
Select distinct(b.bridge_gd) as 'key_'
, bridge_id
, strucname
, facility
, featint
, inspdate
, dkrating
, e.elem_quantity as TotalQ
, e.elem_pctstate1 as CS1
, e.elem_pctstate2 as CS2
, e.elem_pctstate3 as CS3
, e.elem_pctstate4 as CS4
from bridge b
, inspevnt  i
, pon_elem_insp e
, pon_elem_defs d
where b.bridge_gd = i.bridge_gd
and e.inspevnt_gd = i.inspevnt_gd
and e.pon_elem_defs_gd = d.pon_elem_defs_gd
and d.elem_key = '12'
and inspdate = (select MAX(inspdate)
                From inspevnt i2
                where i2.BRIDGE_GD = b.BRIDGE_GD)
order by bridge_id, inspdate asc
```

Results | Messages

key_	bridge_id	strucname	facility	featint	inspdate	dkrating	TotalQ	CS1	CS2	CS3	CS4
BA244F2C61BC45988D245251989F038D	000701	Hunt River RR	US 1 POST RD	AMTRAK	2019-09-04 00:00:00.000	7	13072	97.529	1.323	1.147	0
003CCB6D48C34F1190FAB1A290F8D0AD	001101	C.L. Hussey Memorial	US 1A BSTN NCK RD	WICKFORD COVE	2020-09-11 00:00:00.000	6	2394	91.437	6.475	2.089	0
87FA3C2246574E1281CCCB12186CB247	001501	Austin Farm	US 1 POST RD NB	HUNT RIVER	2019-11-05 00:00:00.000	6	1324	95.468	4.532	0	0
BEA69D9E114C49ECB3B95E1E7D5DE038	001701	Governor Sprague	US 1A BSTN NCK RD	NARROW RIVER	2020-10-02 00:00:00.000	6	9688	99.7	0.2	0.1	0

BRIDGE FILTERS

SQL Statement

SQL Statement Requirements

*The current context requires a selection statement that contains the following column:
(bridge_gd) as 'key_'

```
Select distinct(b.bridge_gd) as 'key_'
, bridge_id
, strucname
, facility
, featint
, inspdate
, dkrating
, e.elem_quantity as TotalQ
, e.elem_pctstate1 as CS1
, e.elem_pctstate2 as CS2
, e.elem_pctstate3 as CS3
, e.elem_pctstate4 as CS4
from bridge b
, inspevnt  i
, pon_elem_insp e
, pon_elem_defs d
where b.bridge_gd = i.bridge_gd
and e.inspevnt_gd = i.inspevnt_gd
and e.pon_elem_defs_gd = d.pon_elem_defs_gd
and d.elem_key = '12'
and inspdate = (select MAX(inspdate)
                From inspevnt i2
                where i2.BRIDGE_GD = b.BRIDGE_GD)
```

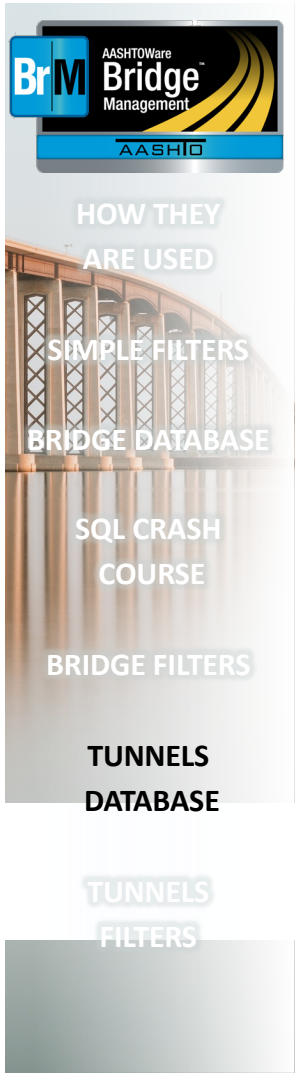
Total SQL length: 531 of 3999

SQL Order By: order by bridge_id, inspdate asc

SQL Result Sample

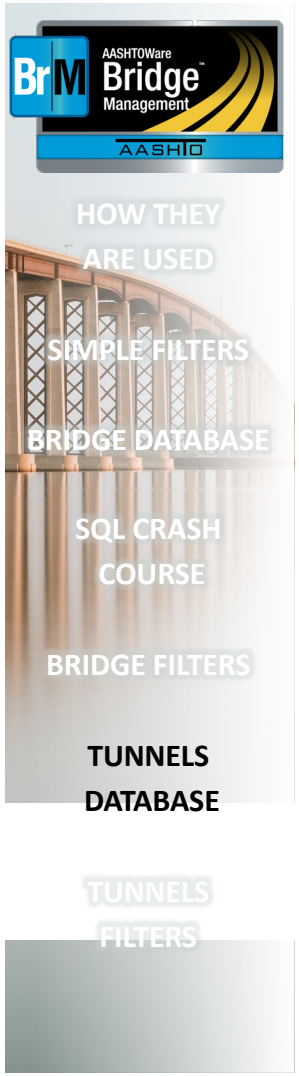
key_	bridge_id	strucname	facility	featint	inspdate	dkrating	Total Q	CS1	CS2	CS3	CS4
BA244F2C61BC45988D245251989F038D	000701	Hunt River RR	US 1 POST RD	AMTRAK	9/8/2017 12:00:00 AM	7	13072	97.5	1.3	1.1	0
003CCB6D48C34F1190FAB1A290F8D0AD	001101	C.L. Hussey Memorial	US 1A BSTN NCK RD	WICKFORD COVE	10/12/2017 12:00:00 AM	6	2394	94.4	5.6	0	0
			MIDDLE								

Save | Save As | Test Element 12 | Reset | Delete



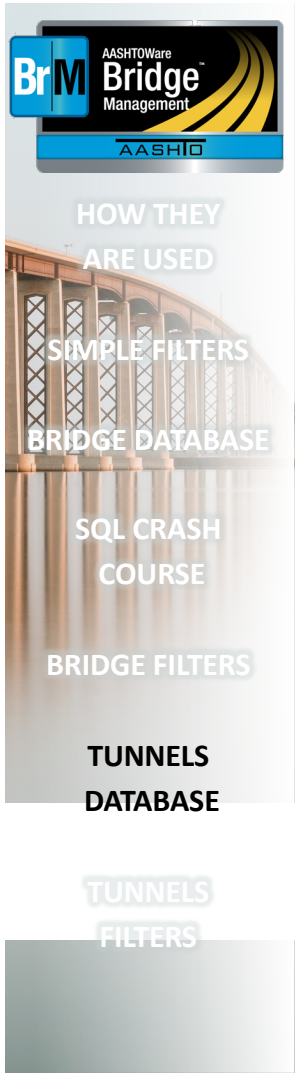
TUNNELS & SIGNS DATABASE

And pavements, and walls, and dams,
and forest towers, and rockfalls, and rest areas



TUNNELS & SIGNS DATABASE

Asset Library



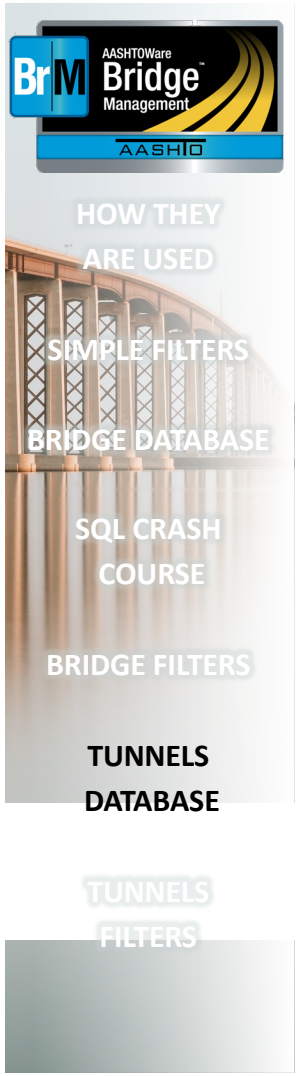
TUNNELS & SIGNS DATABASE

Asset Library

```
1  select * from asset_library
2
```

Results | Messages

ASSET_GD	ASSET_TYPE_GD	PARENT_ASSET_GD	CREATEDATE	CREATE_USER_GD
00C328A69DFE48628444AD6CF3420DBB	0DD75074D173498D82B4F1D7AB165400	31659D2F5A974D0B84DCB90735893502	2018-03-02 13:36:42.107	07FE539E78384E01AFFA
00EB7C2B071E4479948A5684C3087070	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
01739D4BF829452EAB8C5C0E504BBFF4	6F5018129787491B8598FE4A5AA43EF2	NULL	2018-01-03 11:21:13.043	9FF7723DF897412D9B75
01C40AE04BD84F83B1F1D5FF82AE1241	0DD75074D173498D82B4F1D7AB165400	8895C5F8FE0C419D8D79116B50A752F0	2018-01-03 11:21:12.153	9FF7723DF897412D9B75
04076E47709749CF895EBBCDB31654B2	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
059E3BF5EB2A45EA99107FCF37E4A1DC	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
0715DF03B9DA490DB6FC3E9FEE983D31	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
08542FAFC5ED439197275099681EDC4C	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
08B7E89FCCB24117983BA3D9831B6CD1	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
08DEFF18675448FE844B76E83620EAA2	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
09200AAC1EB44D98975D1EE102A7F457	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
09E5F85D81574C469AFF1E4298468595	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
0B4BE980FFD54DE084E80C449EACEBCD	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
13E6EA3C9EE540FB8E3128BDF1BF5A43	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
140F9FFFB377403EAEF9F2FB8F6B6F4C	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
15FB6399219446A8AF8D0C98B759F550	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
16D5BF5213334BABA5582087B4C96FEE	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
18728F2D92814166A6C49CB4C4E67522	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
18B52195042247339CD0FB8C3F99D60D	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8
1B3071D0FCCA44D59EE2C599FA773529	F471C8293F7B437EB7DA7DFD531525B5	NULL	2016-01-01 00:00:00.000	B330B38925654E468AE8



TUNNELS & SIGNS DATABASE

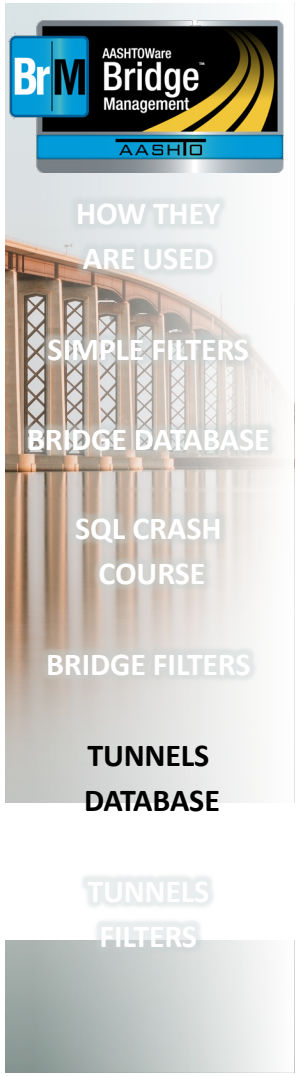
Asset Library

Pon_ Tunnel

```
1  select * from pon_tunnel
2
```

Results | Messages

ASSET_GD	PARENT_ASSET_GD	AADT	ADTT	AADT_YEAR	BORDER_CODE	BORDER_NUM	COMPLEX	COUNTY	DET
01739D4BF829452EAB8C5C0E504BBFF4	NULL	47400	2370	2013	-1	NULL	1	3	10
31659D2F5A974D0B84DCB90735893502	NULL	47400	2370	2013	-1	NULL	1	3	10
47B203E8241D43D2A21CD0458C12989C	NULL	48158	2408	2013	-1	NULL	0	3	0
4D99F6D81FB24A9B8A68BBC92692D3B6	NULL	48158	2408	2013	-1	NULL	0	3	0
5CD1A771691040BE800A54182E45DA9C	NULL	48158	2408	2013	-1	NULL	0	3	0
5D72467930C64D7A823B359C5474DFDB	NULL	48158	2408	2013	-1	NULL	0	3	0
766027A7DD324519AC34B14DCF8C4756	NULL	46533	2327	2013	-1	NULL	0	3	10
8895C5F8FE0C419D8D79116B50A752F0	NULL	30160	1508	2013	-1	NULL	1	3	0
B080C528004F43AFABC0A82A360D8EA7	NULL	24656	1233	2013	-1	NULL	0	9	999
C39C48C6DDA9430D93F0AD715D07A522	NULL	30160	1508	2013	-1	NULL	1	3	0
FF7CA7A0C10F4C86A2FB9C6F8DDC9BDF	NULL	46533	2327	2013	-1	NULL	0	3	10



TUNNELS & SIGNS DATABASE

Asset Library

Pon_ Tunnel

Pon_ Tunnel_ Insp

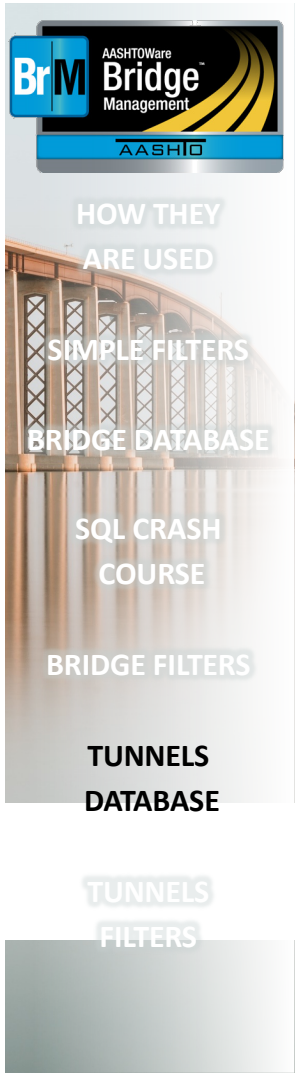
```
1  select * from pon_tunnel_insp
2
```

Primary Key

Foreign Key

Results

ASSET_GD	PARENT_ASSET_GD	INSPDATE	INSPKEY	ROUTINE_DATE	RO
00C328A69DFE48628444AD6CF3420DBB	31659D2F5A974D0B84DCB90735893502	2017-06-21	ODHVIXVCCDWIUCXPLODR	2017-06-21	24
01C40AE04BD84F83B1F1D5FF82AE1241	8895C5F8FE0C419D8D79116B50A752F0	2017-06-26	HLYSNOQTSBDEZQDDMZOP	2017-06-26	24
1D7E5AFF07BA45089E4F2F488CE1D2AA	766027A7DD324519AC34B14DCF8C4756	NULL	VNQRXZOQSVUAOEBJZYMM	NULL	24
3B9A3C8BE9194D90A3290FE4C839F326	C39C48C6DDA9430D93F0AD715D07A522	NULL	HGOZXEQJYAYRGAACHOFO	NULL	24
42A21AD6180043528529821EA7586341	5D72467930C64D7A823B359C5474DFDB	NULL	UAZXFLKTUEPYDDSMDKYF	NULL	24
4CF63B154335474C87FD59D10D03F206	31659D2F5A974D0B84DCB90735893502	2017-06-21	ALLXICKPGQKQUMIBRXMB	2017-06-21	24
4D55F75157FF44119388EC9882E165B6	47B203E8241D43D2A21CD0458C12989C	NULL	ORMKKRESHCMUIWYRAXWK	NULL	24
543DFF30E19C44FD9C42F747D0103199	FF7CA7A0C10F4C86A2FB9C6F8DDC9BDF	2017-07-06	NLZBACXVEDRMXNDJLZJP	2017-07-06	24
5F64CA37926C406AB285B295DD99472C	5CD1A771691040BE800A54182E45DA9C	NULL	HGRQHFIXSQJLBXCOXOJR	NULL	24
6307FDF45A58429CA230F018036E6E57	766027A7DD324519AC34B14DCF8C4756	2017-07-06	NZTJLZWVNYQRAFOTHRPX	2017-07-06	24
658A99C9461A4E10A3F1AC73206D87DC	B080C528004F43AFABC0A82A360D8EA7	2017-07-10	UBMQRETKRJVGDZUTGAGL	2017-07-10	24
67336CF365D4475E9A3D2352D94054DF	5CD1A771691040BE800A54182E45DA9C	2017-07-05	QBFKHTUBCEIXXOQIVRXA	2017-07-05	24
82F2FC3A503E434D979EC3DE61E70B24	4D99F6D81FB24A9B8A68BBC92692D3B6	2017-07-06	GUEIEPEUTRYSNFRCZGYX	2017-07-06	24
893B5697A8A3455DBD461CF4CE24BCB1	C39C48C6DDA9430D93F0AD715D07A522	2017-06-27	UDVWPATQFXFHLCECNYGN	2017-06-27	24
9E4302FABE7B40189C0398391AE53F5B	4D99F6D81FB24A9B8A68BBC92692D3B6	NULL	OPGTIWKWNVZYQXRYZNKV	NULL	24
AED25BB4ABA84AED88E845188A334477	01739D4BF829452EAB8C5C0E504BBFF4	NULL	OLQLXTRPMMFHPETGFPMP	NULL	24
C457F17500AC4087A1C9ADA6B8ECD54B	31659D2F5A974D0B84DCB90735893502	NULL	VPUJGNSDCQTDFYYWXLLJ	NULL	24
D168403298CA40F3B51DA3B0632692F1	FF7CA7A0C10F4C86A2FB9C6F8DDC9BDF	NULL	VRGFLMDQEHFIOLNQUNDM	NULL	24
DDE8932089C540F7852C2EB1F7276907	5D72467930C64D7A823B359C5474DFDB	2017-07-06	YSRNTYYGWPYTBAOFOUAZ	2017-07-06	24
EE5677E493DD44B19F520CCE4E9D7417	47B203E8241D43D2A21CD0458C12989C	2017-07-05	JQKOOXVIJMONYHFXVOEB	2017-07-05	24
FEF374215EDD45C7AAB2303F4C909084	01739D4BF829452EAB8C5C0E504BBFF4	2017-06-19	JPUVOCQSGUSEKSWGKONE	2017-06-19	24



TUNNELS & SIGNS DATABASE

Asset Library

Pon_ Tunnel

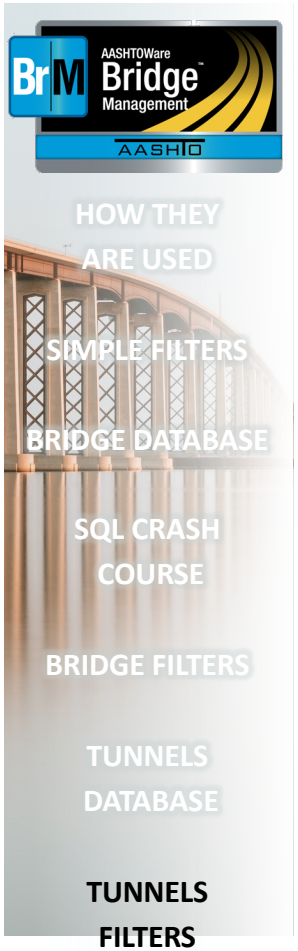
Pon_ Sign

Pon_ Wall

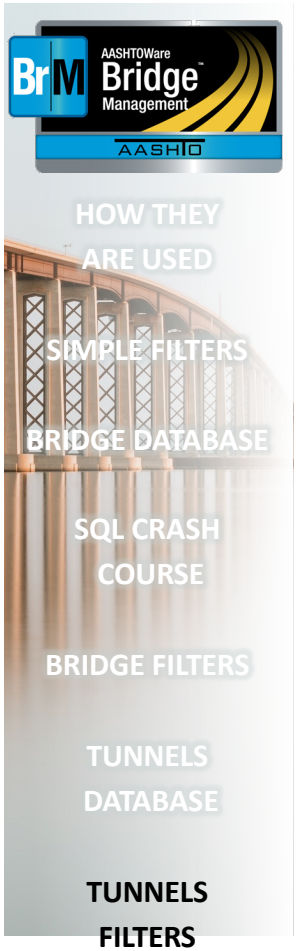
Pon_ Tunnel_ Insp

Pon_ Sign_ Insp

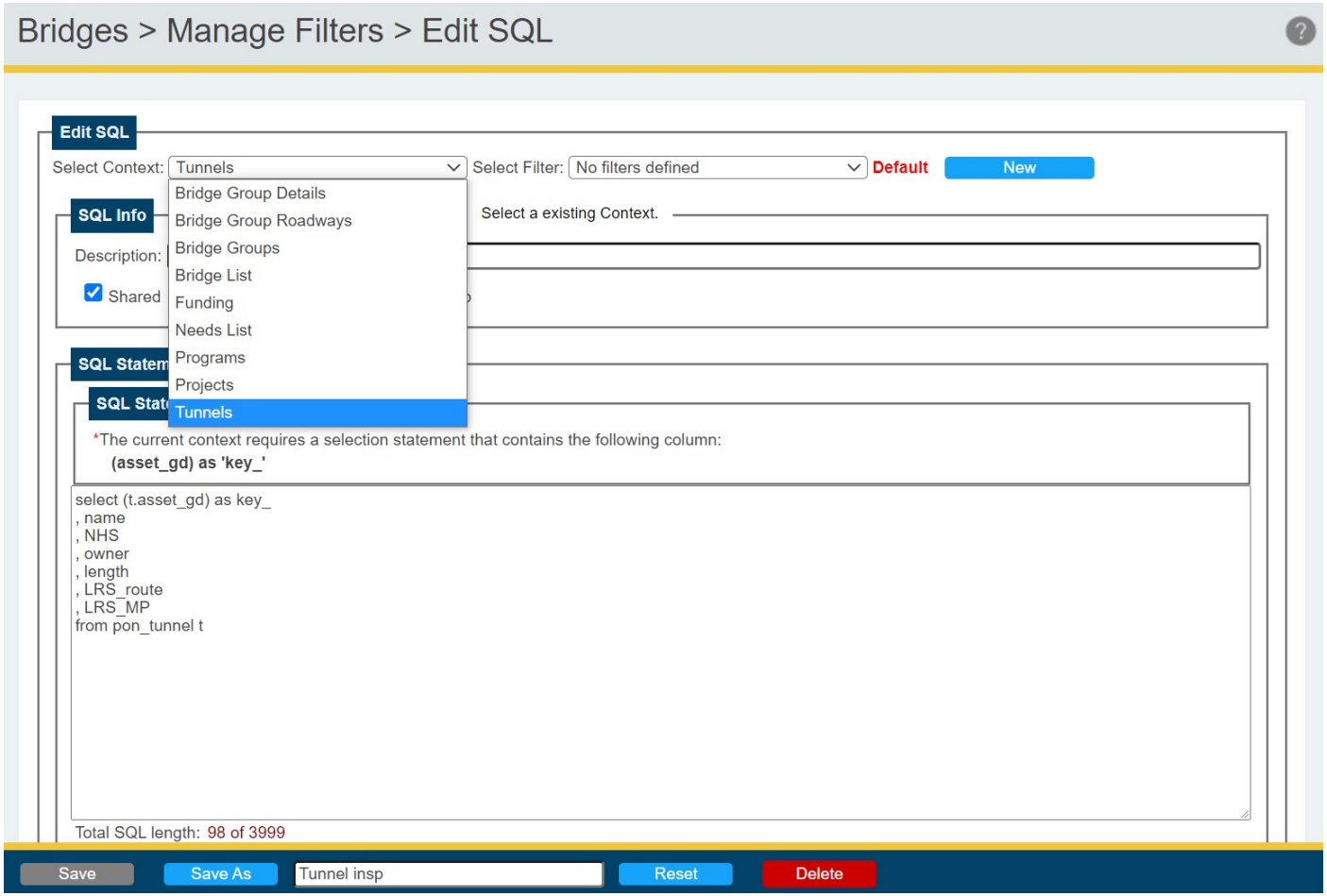
Pon_ Wall_ Insp

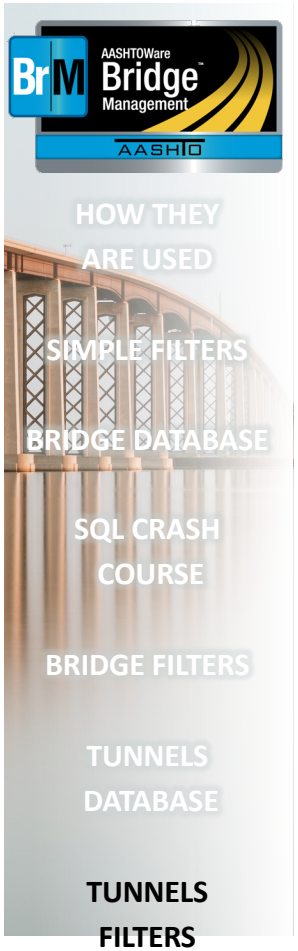


TUNNELS & SIGNS FILTERS



TUNNELS & SIGNS FILTERS



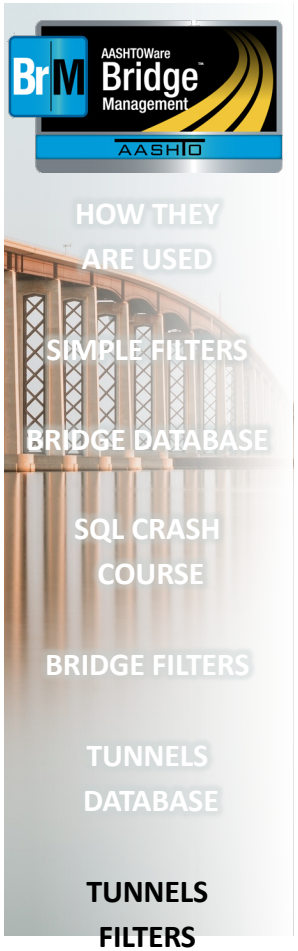


TUNNELS & SIGNS FILTERS

```
1  select (asset_gd) as key_
2  , name
3  , NHS
4  , owner
5  , length
6  , LRS_route
7  , LRS_MP
8  from pon_tunnel
9
10
```

Results | Messages

key_	name	NHS	owner	length	LRS_route	LRS_MP
01739D4BF829452EAB8C5C0E504BBFF4	Harano Tunnel (Outbound)	1	01	6336	H-3	5.449
31659D2F5A974D0B84DCB90735893502	Harano Tunnel (Inbound)	1	01	6336	H-3	5.448
47B203E8241D43D2A21CD0458C12989C	Pali Tunnel No. 2A (Outbound)	1	01	497	61	5.950
4D99F6D81FB24A9B8A68BBC92692D3B6	Pali Tunnel No. 1 (Inbound)	1	01	1000	61	5.690
5CD1A771691040BE800A54182E45DA9C	Pali Tunnel No. 1A (Outbound)	1	01	1080	61	5.680
5D72467930C64D7A823B359C5474DFDB	Pali Tunnel No. 2 (Inbound)	1	01	500	61	5.960
766027A7DD324519AC34B14DCF8C4756	Hospital Rock Tunnel (Inbound)	1	01	351	H-3	7.858
8895C5F8FE0C419D8D79116B50A752F0	Wilson Tunnel (Inbound)	1	01	2775	63	5.760
B080C528004F43AFABC0A82A360D8EA7	Olowalu Tunnel	1	01	318	30	10.340
C39C48C6DDA9430D93F0AD715D07A522	Wilson Tunnel (Outbound)	1	01	2813	63	5.750
FF7CA7A0C10F4C86A2FB9C6F8DDC9BDF	Hospital Rock Tunnel (Outbound)	1	01	354	H-3	7.968



TUNNELS & SIGNS FILTERS

SQL Statement

SQL Statement Requirements

*The current context requires a selection statement that contains the following column:
(asset_gd) as 'key_'

```
select (t.asset_gd) as key_
, name
, NHS
, owner
, length
, LRS_route
, LRS_MP
from pon_tunnel t
```

Total SQL length: 98 of 3999

SQL Order By:

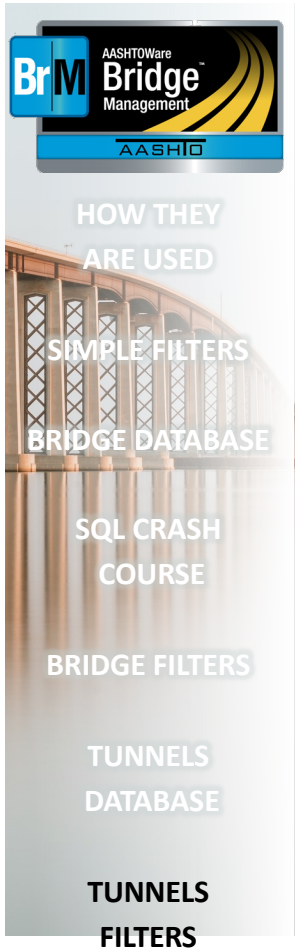
SQL Result Sample

key_	name	NHS	owner	length	LRS_route	LRS_MP
370E609DFB8E478EA0C78865CE164F10	COLLEGE HILL BUS TUNNEL	0	26	1791		

1 | Page size: 5 | 1 items in 1 pages

Evaluate

Save | Save As | Tunnel insp | Reset | Delete



TUNNELS & SIGNS FILTERS

```
1  select (t.asset_gd) as key_
2  , name
3  , LRS_route
4  , LRS_MP
5  , inspdate
6  , ROUTINE_PERF
7  , ELEC_PERF
8  , FIRE_PERF
9  , MECH_PERF
10 , SPECIAL_PERF
11 from pon_tunnel t
12 , pon_tunnel_insp i
13 where i.parent_asset_gd = t.asset_gd
14 and inspdate = (select max(inspdate) from pon_tunnel_insp i2 where i2.PARENT_ASSET_GD = t.ASSET_GD)
15
```

158 %

Results | Messages

	key_	name	LRS_route	LRS_MP	inspdate	ROUTINE_PERF	ELEC_PERF	FIRE_PERF	MECH_PERF	SPECIAL_PERF
1	FF7CA7A0C10F4C86A2FB9C6F8DDC9BDF	Hospital Rock Tunnel (Outbound)	H-3	7.968	2017-07-06	1	1	1	1	0
2	C39C48C6DDA9430D93F0AD715D07A522	Wilson Tunnel (Outbound)	63	5.750	2017-06-27	1	1	1	1	0
3	B080C528004F43AFABC0A82A360D8EA7	Olowalu Tunnel	30	10.340	2017-07-10	1	1	0	0	0
4	8895C5F8FE0C419D8D79116B50A752F0	Wilson Tunnel (Inbound)	63	5.760	2017-06-26	1	1	1	1	0
5	766027A7DD324519AC34B14DCF8C4756	Hospital Rock Tunnel (Inbound)	H-3	7.858	2017-07-06	1	1	1	1	0
6	5D72467930C64D7A823B359C5474DFDB	Pali Tunnel No. 2 (Inbound)	61	5.960	2017-07-06	1	1	1	1	0
7	5CD1A771691040BE800A54182E45DA9C	Pali Tunnel No. 1A (Outbound)	61	5.680	2017-07-05	1	1	1	1	0
8	4D99F6D81FB24A9B8A68BBC92692D3B6	Pali Tunnel No. 1 (Inbound)	61	5.690	2017-07-06	1	1	1	1	0
9	47B203E8241D43D2A21CD0458C12989C	Pali Tunnel No. 2A (Outbound)	61	5.950	2017-07-05	1	1	1	1	0
10	31659D2F5A974D0B84DCB90735893502	Harano Tunnel (Inbound)	H-3	5.448	2017-06-21	1	0	0	0	0
11	31659D2F5A974D0B84DCB90735893502	Harano Tunnel (Inbound)	H-3	5.448	2017-06-21	1	1	1	1	0
12	01739D4BF829452EAB8C5C0E504BBFF4	Harano Tunnel (Outbound)	H-3	5.449	2017-06-19	1	1	1	1	0

TUNNELS & SIGNS FILTERS

SQL Statement

SQL Statement Requirements

*The current context requires a selection statement that contains the following column:
(asset_gd) as 'key_'

```
select (t.asset_gd) as key_
, name
, NHS
, owner
, length
, LRS_route
, LRS_MP
, inspdate
, ROUTINE_PERF
, ELEC_PERF
, FIRE_PERF
, MECH_PERF
, SPECIAL_PERF
from pon_tunnel t
, pon_tunnel_insp i
where i.parent_asset_gd = t.asset_gd
and inspdate = (select max(inspdate) from pon_tunnel_insp i2 where i2.PARENT_ASSET_GD = t.ASSET_GD)
```

Total SQL length: 331 of 3999

SQL Order By:

SQL Result Sample

key_	name	NHS	owner	length	LRS_route	LRS_MP	inspdate	ROUTINE_PERF
370E609DFB8E478EA0C78865CE164F10	COLLEGE HILL BUS TUNNEL	0	26	1791			8/28/2019 12:00:00 AM	1

1 Page size: 5

Evaluate

Save | Save As | Tunnel insp | Reset | Delete

TUNNELS & SIGNS FILTERS

```
1  select (s.asset_gd) as key_
2  , sign_id
3  , route
4  , milepost
5  , signtype
6  , signstructuretype
7  from PON_SIGN s
```

158 %

Results | Messages

	key_	sign_id	route	milepost	signtype	signstructuretype
1	1F4ED86286FF433FBEAAAE206C7200D3	S-0004-05-001	4	NULL	NULL	01
2	31781EB147CC464DBEBEEC64AE7ABF00	S-0004-07-002	NULL	NULL	NULL	NULL
3	398D9FC5D0444D5A9FEA053965447FA3	S-0004-06-001	4	NULL	NULL	01
4	96A7B4B1497A4E13BC5D762FB13238D1	S-0004-06-002	4	NULL	NULL	01
5	B349EEA5E2B149C4B2E601B8ADEC30B1	S-0004-07-001	4	NULL	NULL	01
6	E54D3E9C033A48A4941A842FA1AE75F1	S-0095-00-002	95	NULL	NULL	01

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