

LAB(13-11-2025)

INPUT

MySQL Workbench

```

1 • create database sup;
2 • use sup;
3
4 • CREATE TABLE Supplier (
5     sid INT PRIMARY KEY,
6     sname VARCHAR(30),
7     city VARCHAR(30)
8 );
9
10 • CREATE TABLE Parts (
11     pid INT PRIMARY KEY,
12     pname VARCHAR(30),
13     color VARCHAR(20)
14 );
15
16 • CREATE TABLE Catalog (
17     sid INT,
18     pid INT,
19     cost INT,
20     PRIMARY KEY (sid, pid),
21     FOREIGN KEY (sid) REFERENCES Supplier(sid),
22     FOREIGN KEY (pid) REFERENCES Parts(pid)
23 );

```

Result Grid

pname	sname
Nut	Acme Widget Suppliers
Bolt	Best Parts Co
Screen	Best Parts Co
Washer	Universal Traders

Action Output

Time	Action	Message
24 08:26:51	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sid = s.sid))	1 row(s) returned
25 08:29:25	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.color = 'Red' AND p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sid = s.sid))	2 row(s) returned
26 08:33:42	SELECT p.pname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON c.sid = s.sid WHERE s.sname = 'Acme Widget Suppliers' AND p.color = 'Red'	1 row(s) returned
27 08:44:18	SELECT DISTINCT c.sid FROM Catalog c WHERE c.cost > (SELECT AVG(c2.cost) FROM Catalog c2 WHERE c2.sid = c.sid LIMIT 0, 1000)	2 row(s) returned
28 08:47:59	SELECT p.pname, s.sname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON s.sid = c.sid WHERE c.cost < (SELECT MAX(c2.co...)	4 row(s) returned

Object Info Session Query Completed

MySQL Workbench

```

19     cost INT,
20     PRIMARY KEY (sid, pid),
21     FOREIGN KEY (sid) REFERENCES Supplier(sid),
22     FOREIGN KEY (pid) REFERENCES Parts(pid)
23 );
24
25 • INSERT INTO Supplier VALUES
26     ('Acme Widget Suppliers', 'Delhi'),
27     ('Best Parts Co', 'Mumbai'),
28     ('Universal Traders', 'Chennai');
29 • select * from Supplier;
30
31 • INSERT INTO Parts VALUES
32     (101, 'Bolt', 'Red'),
33     (102, 'Nut', 'Green'),
34     (103, 'Screen', 'Red'),
35     (104, 'Washer', 'Blue');
36 • select * from Parts;
37
38 • INSERT INTO Catalog VALUES
39     (1, 101, 50),
40     (1, 102, 60),
41     (2, 101, 55);

```

Result Grid

pname	sname
Nut	Acme Widget Suppliers
Bolt	Best Parts Co
Screen	Best Parts Co
Washer	Universal Traders

Action Output

Time	Action	Message
24 08:26:51	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sid = s.sid))	1 row(s) returned
25 08:29:25	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.color = 'Red' AND p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sid = s.sid))	2 row(s) returned
26 08:33:42	SELECT p.pname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON c.sid = s.sid WHERE s.sname = 'Acme Widget Suppliers' AND p.color = 'Red'	1 row(s) returned
27 08:44:18	SELECT DISTINCT c.sid FROM Catalog c WHERE c.cost > (SELECT AVG(c2.cost) FROM Catalog c2 WHERE c2.sid = c.sid LIMIT 0, 1000)	2 row(s) returned
28 08:47:59	SELECT p.pname, s.sname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON s.sid = c.sid WHERE c.cost < (SELECT MAX(c2.co...)	4 row(s) returned

Object Info Session Query Completed

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Shutdown, Server Logs, Options File), PERFORMANCE (Log, Performance Reports, Performance Schema Setup), Administration (Schemas), Information.
- Query Editor:** Displays a SQL script with numbered comments. The script includes queries for finding parts with suppliers, parts supplied by every supplier, and average catalog counts.
- Result Grid:** Shows the results of the first query, listing part names and their suppliers.
- Action Output:** Shows the execution log with 8 entries, each detailing a query execution with its time, action, message, and duration.
- Help:** SQLAdditions, Automatic context help is disabled. Use the F1 key to manually get help for the current caret position or toggle automatic help.

The screenshot shows the MySQL Workbench interface with the following details:

- File Menu:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Toolbar:** Includes icons for New, Open, Save, Print, Copy, Paste, Find, Replace, and others.
- Navigator:** Shows the current database as "Supplier".
- Management Section:** Contains links for Server Status, Client Connections, Logs and Privileges, Status and System Variables, Data Export, and Data Import/Restore.
- INSTANCE Section:** Contains links for Status / Shutdown, Server Logs, and Options File.
- PERFORMANCE Section:** Contains links for Dashboard, Performance Reports, and Performance Schema Setup.
- Information Section:** Contains links for Schemas and Session.
- No object selected:** A message indicating no object is currently selected.
- Query Editor:** Displays the following SQL script:

```
55
56  /*NAME OF SUPPLIER WHO SUPPLY EVERY PART*/
57  • 57 SELECT s.sname
58  FROM Supplier s
59  WHERE NOT EXISTS (
60    SELECT p.pid
61    FROM Parts p
62    WHERE p.pid NOT IN (
63      SELECT c.pid
64      FROM Catalog c
65      WHERE c.sid = s.sid
66    )
67  );
68
69  /*NAME OF SUPPLIER WHO SUPPLY EVERY RED PART*/
70  • 70 SELECT s.sname
71  FROM Supplier s
72  WHERE NOT EXISTS (
73    SELECT p.pid
74    FROM Parts p
75    WHERE p.color = 'Red'
76    AND p.pid NOT IN (
77      SELECT c.pid
78    );
79
```
- Result Grid:** Shows the results of the first query:

name
Best Import/Export
Bolt
Screw
Best Parts Co
Washer
Universal Traders
- Action Output:** Shows the execution log:

Time	Action	Message
34.08.26.51	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sid = s.sid))	1 rows(s) returned
00:00:00.000 sec / 0.000 sec		
05.08.29.42	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.color = 'Red' AND p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sid = s.sid))	2 rows(s) returned
00:00:00.000 sec / 0.000 sec		
26.08.30.42	SELECT p.name FROM Parts p JOIN Supplier s ON p.pid = s.sid WHERE p.name = 'Acme Welding Supply' AND s.sid = 1	1 rows(s) returned
00:00:00.000 sec / 0.000 sec		
27.08.41.10	SELECT DISTINCT c.pid FROM Catalog c WHERE c.sid = 1	1 rows(s) returned
00:00:00.000 sec / 0.000 sec		
28.08.47.59	SELECT p.pid, s.sname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON s.sid = c.sid WHERE p.pid = 1	1 rows(s) returned
00:00:00.000 sec / 0.000 sec		
- Status Bar:** Shows "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

MySQL Workbench

RakshitKR

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

```

SELECT p.pid
FROM Parts p
WHERE p.color = "Red"
AND p.pid NOT IN (
    SELECT c.pid
    FROM Catalog c
    WHERE c.sid = s.sid
)
);

/*names of parts supplied by acme widget supplier and by no one else*/
SELECT p.pname
FROM Parts p
JOIN Catalog c ON p.pid = c.pid
JOIN Supplier s ON c.sid = s.sid
WHERE s.sname = "Acme Widget Suppliers"
AND p.pid NOT IN (
    SELECT c2.pid
    FROM Catalog c2
    JOIN Supplier s2 ON c2.sid = s2.sid
    WHERE s2.sname != "Acme Widget Suppliers"
);

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

pname	sname
Nut	Acme Widget Suppliers
Bolt	Best Parts Co
Screw	Best Parts Co
Washer	Universal Traders

Action Output

#	Time	Action	Message	Duration / Fetch
24	08:26:51	SELECT t.sname FROM Supplier t WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE p.color = "Red" AND p.pid NOT IN ()))	1 rows(s) returned	0.000 sec / 0.000 sec
25	08:26:55	SELECT t.sname FROM Supplier t WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.color = "Red" AND p.pid NOT IN ())	0 rows(s) returned	0.000 sec / 0.000 sec
26	08:33:42	SELECT p.pname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON c.sid = s.sid WHERE s.sname = "Acme Widget Suppliers" AND p.pid NOT IN ()	1 rows(s) returned	0.000 sec / 0.000 sec
27	08:44:18	SELECT DISTINCT c.sid FROM Catalog c WHERE c.cost > (SELECT AVG(c2.cost) FROM Catalog c2 WHERE c2.pid = c.pid) LIMIT 0, 1000	2 rows(s) returned	0.000 sec / 0.000 sec
28	08:47:59	SELECT p.pname, s.sname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON s.sid = c.sid WHERE c.cost > (SELECT MAX(c2.co...))	4 rows(s) returned	0.000 sec / 0.000 sec

Result 14 | Output | Action Output | Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

SQLAdditions

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MySQL Workbench

RakshitKR

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
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- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

```

/*find the sid of suppliers who charge more for some parts than average cost of that part*/
SELECT DISTINCT c.sid
FROM Catalog c
WHERE c.cost > (
    SELECT AVG(c2.cost)
    FROM Catalog c2
    WHERE c2.pid = c.pid
);

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

pname	sname
Nut	Acme Widget Suppliers
Bolt	Best Parts Co
Screw	Best Parts Co
Washer	Universal Traders

Action Output

#	Time	Action	Message	Duration / Fetch
24	08:26:51	SELECT t.sname FROM Supplier t WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE p.color = "Red" AND p.pid NOT IN ()))	1 rows(s) returned	0.000 sec / 0.000 sec
25	08:26:55	SELECT t.sname FROM Supplier t WHERE NOT EXISTS (SELECT p.pid FROM Parts p WHERE p.color = "Red" AND p.pid NOT IN ())	0 rows(s) returned	0.000 sec / 0.000 sec
26	08:33:42	SELECT p.pname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON c.sid = s.sid WHERE s.sname = "Acme Widget Suppliers" AND p.pid NOT IN ()	1 rows(s) returned	0.000 sec / 0.000 sec
27	08:44:18	SELECT DISTINCT c.sid FROM Catalog c WHERE c.cost > (SELECT AVG(c2.cost) FROM Catalog c2 WHERE c2.pid = c.pid) LIMIT 0, 1000	2 rows(s) returned	0.000 sec / 0.000 sec
28	08:47:59	SELECT p.pname, s.sname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON s.sid = c.sid WHERE c.cost > (SELECT MAX(c2.co...))	4 rows(s) returned	0.000 sec / 0.000 sec

Result 14 | Output | Action Output | Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

OUTPUTS

MySQL Workbench - RishabhR

```

22 | FOREIGN KEY (pid) REFERENCES Parts(pid)
23 |
24 |
25 • INSERT INTO Supplier VALUES
26   ('Acme Widget Suppliers', 'Delhi'),
27   ('Best Parts Co', 'Mumbai'),
28   ('Universal Traders', 'Chennai')
29 • select * from Supplier
30
31 • INSERT INTO Parts VALUES
32   (101, 'Bolt', 'Red'),
33   (102, 'Nut', 'Green'),
34   (103, 'Screw', 'Red'),
35   (104, 'Washer', 'Blue')
36 • select * from Parts
37
38 • INSERT INTO Catalog VALUES
39   (1, 101, 50),
40   (1, 102, 60),
41   (2, 101, 55),
42   (2, 103, 70),
43   (3, 101, 45),
44
45 /*name of parts for which there is some supplier*/

```

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Content | SQL Editor | Form Editor | Field Types | Context Help | Snippets

id	name	city
1	Acme Widget Suppliers	Delhi
2	Best Parts Co	Mumbai
3	Universal Traders	Chennai

Supplier 15 x

Output

MySQL Workbench - RishabhR

```

22 | FOREIGN KEY (pid) REFERENCES Parts(pid)
23 |
24 |
25 • INSERT INTO Supplier VALUES
26   ('Acme Widget Suppliers', 'Delhi'),
27   ('Best Parts Co', 'Mumbai'),
28   ('Universal Traders', 'Chennai')
29 • select * from Supplier
30
31 • INSERT INTO Parts VALUES
32   (101, 'Bolt', 'Red'),
33   (102, 'Nut', 'Green'),
34   (103, 'Screw', 'Red'),
35   (104, 'Washer', 'Blue')
36 • select * from Parts
37
38 • INSERT INTO Catalog VALUES
39   (1, 101, 50),
40   (1, 102, 60),
41   (2, 101, 55),
42   (2, 103, 70),
43   (3, 101, 45),
44
45 /*name of parts for which there is some supplier*/

```

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Content | SQL Editor | Form Editor | Field Types | Context Help | Snippets

pid	pname	color
101	Bolt	Red
102	Nut	Green
103	Screw	Red
104	Washer	Blue

Parts 16 x

Output

MySQL Workbench - RishabhR

```

34   ('Screen', 'Red'),
35   ('Washer', 'Blue'));
36 • select * from Parts;
37
38 • INSERT INTO Catalog VALUES
39   (1, 101, 50),
40   (1, 102, 60),
41   (2, 101, 55),
42   (2, 103, 70),
43   (3, 101, 45),
44   (3, 104, 80);
45
46 • insert into Catalog values
47   (1,105,15.00),
48   (1,104,17.00);
49
50 • select * from Catalog;
51
52 /*name of parts for which there is some supplier*/

```

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Content | SQL Editor | Form Editor | Field Types | Context Help | Snippets

id	pid	cost
1	101	50
1	102	60
1	103	15
1	104	17
1	105	55
2	103	70
3	101	45
3	104	80

Catalog 17 x

Action Output

Time	Action	Message	Duration / Fetch
27 08:44:18	SELECT DISTINCT c.pid FROM Catalog c WHERE c.cost > (SELECT AVG(c2.cost) FROM Catalog c2 WHERE c2.pid = c.pid) LIMIT 0, 1000	2 rows(s) returned	0.000 sec / 0.000 sec
28 08:47:59	SELECT p.pname, s.name FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Suppliers s ON s.sid = c.sid WHERE c.cost < (SELECT MAX(c2.co...)	4 rows(s) returned	0.000 sec / 0.000 sec
29 09:01:30	select * from Supplier LIMIT 0, 1000	3 rows(s) returned	0.000 sec / 0.000 sec

MySQL Workbench - RakshitR

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

```

SELECT * FROM Catalog;
--pname of parts for which there is some supplier
SELECT DISTINCT p.pname
FROM Parts p
JOIN Catalog c ON p.pid = c.pid;
--sname of supplier who supply every part
SELECT s.sname
FROM Supplier s
WHERE NOT EXISTS (
    SELECT p.pid
    FROM Parts p
    WHERE p.pid NOT IN (
        SELECT c.pid
        FROM Catalog c
        WHERE c.sid = s.sid
    )
);
--NAME OF SUPPLIER WHO SUPPLY EVERY RED PART
SELECT s.sname
FROM Supplier s
WHERE NOT EXISTS (
    SELECT p.pid
    FROM Parts p
    WHERE p.color = 'red'
    AND p.pid NOT IN (
        SELECT c.pid
        FROM Catalog c
        WHERE c.sid = s.sid
    )
);
--pnames of parts supplied by acme widget supplier and by no one else
SELECT p.pname

```

Result Grid

name
Bolt
Hut
Screw
Washer

Result 18

Output

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench - RakshitR

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Navigator

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PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

```

SELECT DISTINCT p.pname
FROM Parts p
JOIN Catalog c ON p.pid = c.pid;
--sname of supplier who supply every part
SELECT s.sname
FROM Supplier s
WHERE NOT EXISTS (
    SELECT p.pid
    FROM Parts p
    WHERE p.pid NOT IN (
        SELECT c.pid
        FROM Catalog c
        WHERE c.sid = s.sid
    )
);
--NAME OF SUPPLIER WHO SUPPLY EVERY RED PART
SELECT s.sname
FROM Supplier s
WHERE NOT EXISTS (
    SELECT p.pid
    FROM Parts p
    WHERE p.color = 'red'
    AND p.pid NOT IN (
        SELECT c.pid
        FROM Catalog c
        WHERE c.sid = s.sid
    )
);

```

Supplier 19

Output

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench - RakshitR

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
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- Status and System Variables
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INSTANCE

- Startup / Shutdown
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- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

```

);
--NAME OF SUPPLIER WHO SUPPLY EVERY RED PART
SELECT s.sname
FROM Supplier s
WHERE NOT EXISTS (
    SELECT p.pid
    FROM Parts p
    WHERE p.color = 'red'
    AND p.pid NOT IN (
        SELECT c.pid
        FROM Catalog c
        WHERE c.sid = s.sid
    )
);
--pnames of parts supplied by acme widget supplier and by no one else
SELECT p.pname

```

Supplier 20

Output

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

RakshitR

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

```

82  /*names of parts supplied by acme widget supplier and by no one else*/
83
84 • SELECT p.pname
85   FROM Parts p
86   JOIN Catalog c ON p.pid = c.pid
87   JOIN Supplier s ON c.sid = s.sid
88   WHERE s.sname = 'Acme Widget Suppliers'
89   AND p.pid NOT IN (
90     SELECT c2.pid
91       FROM Catalog c2
92       JOIN Supplier s2 ON c2.sid = s2.sid
93       WHERE s2.sname <> 'Acme Widget Suppliers'
94   )
95
96  /*Find the sid of suppliers who charge more for some parts than average cost of that part*/
97 • SELECT DISTINCT c.sid
98   FROM Catalog c
99   WHERE c.cost > (
100
101    SELECT AVG(c2.cost)
102      FROM Catalog c2
103      WHERE c2.pid = c.pid
104  )
105
106  /*for each part find the sname of supplier who charges the most for that part*/
107
108
109
110
111
112
113
114

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

pname
Not

Result 21 x

Output

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

RakshitR

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

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Administration Schemas

Information

No object selected

```

88   WHERE s.sname = 'Acme Widget Suppliers'
89   AND p.pid NOT IN (
90     SELECT c2.pid
91       FROM Catalog c2
92       JOIN Supplier s2 ON c2.sid = s2.sid
93       WHERE s2.sname <> 'Acme Widget Suppliers'
94   )
95
96  /*Find the sid of suppliers who charge more for some parts than average cost of that part*/
97 • SELECT DISTINCT c.sid
98   FROM Catalog c
99   WHERE c.cost > (
100
101    SELECT AVG(c2.cost)
102      FROM Catalog c2
103      WHERE c2.pid = c.pid
104  )
105
106  /*for each part find the sname of supplier who charges the most for that part*/
107
108
109
110
111
112
113
114

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

sd
2
3

Catalog 22 x

Output

Action Output

Time	Action	Message	Duration / Batch
32 09:03:40	SELECT DISTINCT p.pname FROM Parts p JOIN Catalog c ON p.pid = c.pid LIMIT 8, 1000	4 rows(s) returned	0.000 sec / 0.000 sec
33 09:03:54	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT c.pid FROM Parts p WHERE p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sname = 'Acme Widget Suppliers' AND p.pid = c.pid))	1 row(s) returned	0.000 sec / 0.000 sec
34 09:03:09	SELECT s.sname FROM Supplier s WHERE NOT EXISTS (SELECT c.pid FROM Parts p WHERE p.pid NOT IN (SELECT c.pid FROM Catalog c WHERE c.sname = 'Acme Widget Suppliers' AND p.pid = c.pid))	2 rows(s) returned	0.000 sec / 0.000 sec
35 09:03:28	SELECT p.pname FROM Parts p JOIN Catalog c ON p.pid = c.pid JOIN Supplier s ON c.sid = s.sid WHERE s.sname > 'Acme Widget Suppliers' AND p.pid = c.pid	1 row(s) returned	0.000 sec / 0.000 sec
36 09:03:46	SELECT DISTINCT c.sid FROM Catalog c WHERE c.cost > (SELECT AVG(c2.cost) FROM Catalog c2 WHERE c2.pid = c.pid) LIMIT 0, 1000	2 rows(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

RakshitR

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PERFORMANCE

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Administration Schemas

Information

No object selected

```

97 • SELECT DISTINCT c.sid
98   FROM Catalog c
99   WHERE c.cost > (
100
101    SELECT AVG(c2.cost)
102      FROM Catalog c2
103      WHERE c2.pid = c.pid
104  )
105
106  /*for each part find the sname of supplier who charges the most for that part*/
107
108
109
110
111
112
113
114

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

pname	sname
Bolt	Best Parts Co
Screw	Best Parts Co
Washer	Universal Traders

Result 23 x

Output

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.