

File Edit View Query Database Server Tools Scripting Help



**Schemas**

Filter objects

- atharv
- bank
- bank074
- bank1
- bank17
- bank1\_database
- bank2
- bank3
- bank\_database
- bank\_database\_128
- bank\_insurance
- bank\_insurancee
- bankscs074
- college
- college\_128
- college\_128j
- college\_136
- emp
- empi
- employee

Administration Schemas

No object selected

Query 1

Limit to 50000 rows

```

1 • DROP DATABASE supplier;
2 • CREATE DATABASE supplier;
3 • USE supplier;
4
5 • CREATE TABLE SUPPLIERS (
6     SID INT PRIMARY KEY,
7     SNAME VARCHAR(100),
8     CITY VARCHAR(50)
9 );
10
11 • CREATE TABLE PARTS (
12     PID INT PRIMARY KEY,
13     PNAME VARCHAR(100),
14     COLOR VARCHAR(50)
15 );
16
17 • CREATE TABLE CATALOG (
18     SID INT,
19     PID INT,
20     COST DECIMAL(10,2),
21     PRIMARY KEY (SID, PID),
22     FOREIGN KEY (SID) REFERENCES SUPPLIERS(SID),
23     FOREIGN KEY (PID) REFERENCES PARTS(PID)

```

SQLAdditions

Jump to

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

Result Grid | Filter Rows:  | Edit: | Export/Import: | Wrap Cell Content:

SID	SNAME	CITY
10001	acene widget	banglore
10002	johns	kolkata
10003	vimal	mumbai
10004	relance	delhi
*	NULL	NULL



Context Help Snippets

SUPPLIERS 1

Apply

Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
8	11:32:33	insert into PARTS values (20001,'book','red'), (20002,'pen','red'), (20003,'pencil','green'), (20004,'mobile','green'), (20005,'charger','black')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
9	11:32:35	insert into CATALOG values (10001,20001,10), (10001,20002,10), (10001,20003,30), (10001,20004,10), (10001,20005,10), (10002,20001,10), (10002,20002,10), (10002,20003,30), (10002,20004,10)	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.000 sec
10	11:32:40	SELECT * FROM SUPPLIERS LIMIT 0, 50000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



11:33:01  
14-11-2025

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

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Shows Schemas: atharv, bank, bank074, bank1, bank17, bank1\_database, bank2, bank3, bank\_database, bank\_database\_128, bank\_insurance, bank\_insurancee, banks074, college, college\_128, college\_128j, college\_136, emp, emp1, employee.
- Query Editor (Query 1):** Contains a multi-line SQL script with numbered lines 19 through 41. The script includes DDL for creating tables (SUPPLIERS, PARTS, CATALOG) and DML for inserting data into SUPPLIERS and CATALOG.
- Results Grid:** A table showing the inserted data from the SUPPLIERS table:

SID	SNAME	CITY
10001	acene widget	banglore
10002	johns	kolkata
10003	vimal	mumbai
10004	reliance	delhi
NULL	NULL	NULL
- Output Log:** Shows the execution history with three entries:| # | Time | Action | Message | Duration / Fetch |
| --- | --- | --- | --- | --- |
| 8 | 11:32:33 | insert into PARTS values (20001,book,'red'), (20002,pen,'red'), (20003,pencil,'green'), (20004,mobile,'green'), (20005,charger,'black') | 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0 | 0.000 sec |
| 9 | 11:32:35 | insert into CATALOG values (10001,20001,10), (10001,20002,10), (10001,20003,30), (10001,20004,10), (10001,20005,10), (10002,20001,10), (10002,20002,10) | 9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0 | 0.000 sec |
| 10 | 11:32:40 | SELECT \* FROM SUPPLIERS LIMIT 0, 50000 | 4 row(s) returned | 0.000 sec / 0.000 sec |

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar has sections for Navigator, Schemas, Administration, and Information, with 'No object selected' currently active. The main area contains a 'Query 1' tab with the following SQL code:

```
37      (20005,'charger','black');
38
39
40 • insert into CATALOG values
41     (10001,20001,10),
42     (10001,20002,10),
43     (10001,20003,30),
44     (10001,20004,10),
45     (10001,20005,10),
46     (10002,20001,10),
47     (10002,20002,20),
48     (10003,20003,30),
49     (10004,20003,40);
50
51
52
53 • SELECT * FROM SUPPLIERS;
54 • SELECT * FROM PARTS;
55 • SELECT * FROM C
  KEYW alter
  KEYW analyze
  KEYW begin
  KEYW binlog
  KEYW cache index
  KEYW call
  KEYW change
  KEYW check table
  KEYW checksum table
  KEYW clone
  KEYW commit
  KEYW create
  KEYW deallocate prepare
  KEYW delete
  KEYW desc
```

A context help dropdown is open over the 'KEYW alter' suggestion, listing other MySQL keywords. Below the code editor is a 'Result Grid' showing the data from the 'SUPPLIERS' table:

PID	PNAME	COLOR
20001	book	red
20002	pen	red
20003	pencil	green
20004	mobile	green
20005	charger	black
*	NULL	NULL

The bottom section shows the 'Action Output' history:

#	Time	Action	Message	Duration / Fetch
9	11:32:35	insert into CATALOG values (10001,20001,10), (10001,20002,10), (10001,20003,30), (10001,20004,10), (10001,20005,10), (10002,20001,10), (10002,20002,20), (10003,20003,30), (10004,20003,40);	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.000 sec
10	11:32:40	SELECT * FROM SUPPLIERS LIMIT 0, 50000	4 row(s) returned	0.000 sec / 0.000 sec
11	11:33:24	SELECT * FROM PARTS LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar has sections for Navigator (schemas like atharv, bank, bank074, etc.), Administration, and Information. The main area features a 'Query 1' tab with the following SQL code:

```
37  (20005,'charger','black');  
38  
39  
40 • insert into CATALOG values  
41  (10001,20001,10),  
42  (10001,20002,10),  
43  (10001,20003,30),  
44  (10001,20004,10),  
45  (10001,20005,10),  
46  (10002,20001,10),  
47  (10002,20002,20),  
48  (10003,20003,30),  
49  (10004,20003,40);  
50  
51  
52  
53 • SELECT * FROM SUPPLIERS;  
54 • SELECT * FROM PARTS;  
55 • SELECT * FROM CATALOG;  
56  
57 • SELECT DISTINCT p.PNAME
```

Below the code is a 'Result Grid' showing data from the CATALOG table:

SID	PID	COST
10001	20001	10.00
10001	20002	10.00
10001	20003	30.00
10001	20004	10.00
10001	20005	10.00
10002	20001	10.00
10002	20002	20.00
10003	20003	30.00
10004	20003	40.00

The bottom section shows the 'Output' timeline with three log entries:

#	Time	Action	Message	Duration / Fetch
10	11:32:40	SELECT * FROM SUPPLIERS LIMIT 0, 50000	4 row(s) returned	0.000 sec / 0.000 sec
11	11:33:24	SELECT * FROM PARTS LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec
12	11:33:36	SELECT * FROM CATALOG LIMIT 0, 50000	9 row(s) returned	0.000 sec / 0.000 sec



**Schemas**

Filter objects

- atharv
- bank
- bank074
- bank1
- bank17
- bank1\_database
- bank2
- bank3
- bank\_database
- bank\_database\_128
- bank\_insurance
- bank\_insurancee
- bankscs074
- college
- college\_128
- college\_128j
- college\_136
- emp
- empi
- employee

Administration Schemas

No object selected

Information

Query 1 x

```

49  (10004,20003,40);
50
51
52
53 •   SELECT * FROM SUPPLIERS;
54 •   SELECT * FROM PARTS;
55 •   SELECT * FROM CATALOG;
56
57 •   SELECT DISTINCT p.PNAME
58   FROM PARTS p
59   JOIN CATALOG c ON p.PID = c.PID;
60
61 •   SELECT s.SNAME
62   FROM SUPPLIERS s
63   WHERE NOT EXISTS (
64       SELECT p.PID
65       FROM PARTS p
66   ) WHERE NOT EXISTS (
67       SELECT *
68       FROM CATALOG c
69       WHERE c.SID = s.SID AND c.PID = p.PID
    
```

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

PNAME
book
pen
pencil
mobile
charger

Result Grid  
 Form Editor  
 Field Types

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
11	11:33:24	SELECT * FROM PARTS LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec
12	11:33:36	SELECT * FROM CATALOG LIMIT 0, 50000	9 row(s) returned	0.000 sec / 0.000 sec
13	11:34:02	SELECT DISTINCT p.PNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

SQLAdditions

Jump to

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



Navigator

Schemas

Filter objects

- atharv
- bank
- bank074
- bank1
- bank17
- bank1\_database
- bank2
- bank3
- bank\_database
- bank\_database\_128
- bank\_insurance
- bank\_insurancee
- bankscs074
- college
- college\_128
- college\_128j
- college\_136
- emp
- empi
- employee

Administration Schemas

No object selected

Information

Query 1

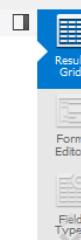
```

55 •   SELECT * FROM CATALOG;
56
57 •   SELECT DISTINCT p.PNAME
      FROM PARTS p
      JOIN CATALOG c ON p.PID = c.PID;
58
59 •   SELECT s.SNAME
      FROM SUPPLIERS s
60
61 •   WHERE NOT EXISTS (
62       SELECT p.PID
63       FROM PARTS p
64       WHERE NOT EXISTS (
65           SELECT *
66           FROM CATALOG c
67           WHERE c.SID = s.SID AND c.PID = p.PID
68       )
69   )
70
71 );
72
73 •   SELECT s.SNAME
      FROM SUPPLIERS s
74
75 •   WHERE NOT EXISTS (

```

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

SNAME
acene widget



Context Help Snippets

SUPPLIERS 5

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	11:33:36	SELECT * FROM CATALOG LIMIT 0, 50000	9 row(s) returned	0.000 sec / 0.000 sec
13	11:34:02	SELECT DISTINCT p.PNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec
14	11:34:27	SELECT s.SNAME FROM SUPPLIERS s WHERE NOT EXISTS ( SELECT p.PID FROM PARTS p WHERE NOT EXISTS ( SELECT * F... ) )	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



11:34:29  
14-11-2025

SQLAdditions

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



- Navigator
- Schemas
- Filter objects
  - atharv
  - bank
  - bank074
  - bank1
  - bank17
  - bank1\_database
  - bank2
  - bank3
  - bank\_database
  - bank\_database\_128
  - bank\_insurance
  - bank\_insurancee
  - bankcs074
  - college
  - college\_128
  - college\_128j
  - college\_136
  - emp
  - empi
  - employee
- Administration Schemas

No object selected

Information

Query 1

```

67 |     SELECT *
68 |     FROM CATALOG c
69 |     WHERE c.SID = s.SID AND c.PID = p.PID
70 |
71 );
72
73 •     SELECT s.SNAME
74     FROM SUPPLIERS s
75 •     WHERE NOT EXISTS (
76         SELECT p.PID
77         FROM PARTS p
78         WHERE p.COLOR = 'Red'
79         AND NOT EXISTS (
80             SELECT *
81             FROM CATALOG c
82             WHERE c.SID = s.SID AND c.PID = p.PID
83         )
84     );
85
86 •     SELECT p.PNAME
87     FROM PARTS p

```

Result Grid

SNAME	
acene widget	
johns	



SQLAdditions

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

SUPPLIERS 6

Action Output

#	Time	Action	Message	Duration / Fetch
13	11:34:02	SELECT DISTINCT p.PNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec
14	11:34:27	SELECT s.SNAME FROM SUPPLIERS s WHERE NOT EXISTS ( SELECT p.PID FROM PARTS p WHERE NOT EXISTS ( SELECT * FROM CATALOG c WHERE c.SID = s.SID AND c.PID = p.PID ) )	1 row(s) returned	0.000 sec / 0.000 sec
15	11:34:39	SELECT s.SNAME FROM SUPPLIERS s WHERE NOT EXISTS ( SELECT p.PID FROM PARTS p WHERE p.COLOR = 'Red' AND NOT EXISTS ( SELECT * FROM CATALOG c WHERE c.SID = s.SID AND c.PID = p.PID ) )	2 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

Object Info Session



11:34:41  
14-11-2025



**Schemas**

Filter objects

- atharv
- bank
- bank074
- bank1
- bank17
- bank1\_database
- bank2
- bank3
- bank\_database
- bank\_database\_128
- bank\_insurance
- bank\_insurancee
- bankcs074
- college
- college\_128
- college\_128j
- college\_136
- emp
- empi
- employee

Administration Schemas

No object selected

Information

Query 1 x

```

82     )
83   );
84
85
86 •   SELECT p.PNAME
87   FROM PARTS p
88   JOIN CATALOG c ON p.PID = c.PID
89   JOIN SUPPLIERS s ON c.SID = s.SID
90   WHERE s.SNAME = 'acene widget'
91   AND p.PID NOT IN (
92     SELECT c2.PID
93     FROM CATALOG c2
94     JOIN SUPPLIERS s2 ON c2.SID = s2.SID
95     WHERE s2.SNAME > 'acene widget'
96   );
97
98 •   SELECT DISTINCT c1.SID
99   FROM CATALOG c1
100  WHERE c1.COST > (
101    SELECT AVG(c2.COST)
102    FROM CATALOG c2

```

SQLAdditions

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

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

PNAME
mobile
charger

Result Grid  
Form Editor  
Field Types

Result 10 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
17	11:36:18	SELECT p.PNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE s.SNAME = 'Acme Widget' AND p.PID NOT IN (SELECT c2.PID FROM CATALOG c2 JOIN SUPPLIERS s2 ON c2.SID = s2.SID WHERE s2.SNAME > 'acene widget')	0 row(s) returned	0.000 sec / 0.000 sec
18	11:41:20	SELECT p.PNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE s.SNAME = 'acene widget' AND c1.COST > (SELECT AVG(c2.COST) FROM CATALOG c2)	0 row(s) returned	0.000 sec / 0.000 sec
19	11:41:38	SELECT p.PNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE s.SNAME = 'acene widget' AND c1.COST > (SELECT AVG(c2.COST) FROM CATALOG c2)	2 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

File Edit View Query Database Server Tools Scripting Help



Navigator

## SCHEMAS

- Filter objects
- atharv
- bank
- bank074
- bank1
- bank17
- bank1\_database
- bank2
- bank3
- bank\_database
- bank\_database\_128
- bank\_insurance
- bank\_insurancee
- banks074
- college
- college\_128
- college\_128j
- college\_136
- emp
- empl
- employee
- Schemas

Administration

Information

No object selected

Object Info

Session

Query Completed

Query 1

```

86 •   SELECT p.PNAME
87     FROM PARTS p
88   JOIN CATALOG c ON p.PID = c.PID
89   JOIN SUPPLIERS s ON c.SID = s.SID
90   WHERE s.SNAME = 'acene widget'
91   AND p.PID NOT IN (
92     SELECT c2.PID
93     FROM CATALOG c2
94   JOIN SUPPLIERS s2 ON c2.SID = s2.SID
95   WHERE s2.SNAME > 'acene widget'
96 );
97
98 •   SELECT DISTINCT c1.SID
99     FROM CATALOG c1
100  WHERE c1.COST > (
101    SELECT AVG(c2.COST)
102    FROM CATALOG c2
103   WHERE c2.PID = c1.PID
104 );
105
106 •   SELECT p.PID, s.SNAME

```

Result Grid	
	SID
▶	10002
	10004

Result Grid  
Form Editor  
Field Types

SQLAdditions  
Jump to

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

CATALOG 14

Output

Action Output

#	Time	Action	Message	Duration / Fetch
21	11:42:57	SELECT p.PNAME, s.SNAME, c.COST FROM PARTS p JOIN CATALOG c ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE c.COST = (	6 row(s) returned	0.000 sec / 0.000 sec
22	11:46:19	SELECT p.PID, s.SNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE c.COST = (	6 row(s) returned	0.000 sec / 0.000 sec
23	11:46:53	SELECT DISTINCT c1.SID FROM CATALOG c1 WHERE c1.COST > (	2 row(s) returned	0.000 sec / 0.000 sec

Read Only

Context Help Snippets

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar has sections for Navigator (Schemas, Administration, Schemas), Information (No object selected), and Object Info (Session). The main area features a 'Query 1' tab with a SQL editor containing a complex query involving multiple tables (PARTS, CATALOG, SUPPLIERS) and subqueries. Below the editor is a 'Result Grid' showing the output of the query:

PID	SNAME
20001	acene widget
20004	acene widget
20005	acene widget
20001	johns
20002	johns
20003	reliance

The right side of the interface includes a 'SQLAdditions' toolbar and a status message: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help." The bottom panel shows the 'Result 15' tab with an 'Action Output' history table:

#	Time	Action	Message	Duration / Fetch
22	11:46:19	SELECT p.PID, s.SNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE c.COST = ( SELECT AVG(c2.COST) FROM CATALOG c2 WHERE c2.PID = c1.PID )	6 row(s) returned	0.000 sec / 0.000 sec
23	11:46:53	SELECT DISTINCT c1.SID FROM CATALOG c1 WHERE c1.COST > ( SELECT AVG(c2.COST) FROM CATALOG c2 WHERE c2.PID = c1.PID )	2 row(s) returned	0.000 sec / 0.000 sec
24	11:47:10	SELECT p.PID, s.SNAME FROM PARTS p JOIN CATALOG c ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE c.COST = ( SELECT AVG(c2.COST) FROM CATALOG c2 WHERE c2.PID = c1.PID )	6 row(s) returned	0.000 sec / 0.000 sec

File Edit View Query Database Server Tools Scripting Help



**Schemas**

Filter objects

- atharv
- bank
- bank074
- bank1
- bank17
- bank1\_database
- bank2
- bank3
- bank\_database
- bank\_database\_128
- bank\_insurance
- bank\_insurancee
- bankscs074
- college
- college\_128
- college\_128j
- college\_136
- emp
- empi
- employee

Administration Schemas

No object selected

Query 1

```

110 WHERE c.COST = (
111     SELECT MAX(c2.COST)
112     FROM CATALOG c2
113     WHERE c2.PID = p.PID
114 );
115
116
117
118 •   SELECT P.PID, P.PNAME, C.COST, S.SID, S.SNAME
119     FROM CATALOG C
120     JOIN PARTS P ON C.PID = P.PID
121     JOIN SUPPLIERS S ON C.SID = S.SID
122     WHERE C.COST = (SELECT MAX(COST) FROM CATALOG);
123
124 •   SELECT *
125     FROM SUPPLIERS S
126 WHERE S.SID NOT IN (
127     SELECT C.SID
128     FROM CATALOG C
129     JOIN PARTS P ON C.PID = P.PID
130     WHERE P.COLOR = 'red'

```

SQLAdditions

Jump to

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

Result Grid

PID	PNAME	COST	SID	SNAME
20003	pencil	40.00	10004	reliance



Context Help Snippets

Result 16

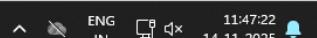
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
23	11:46:53	SELECT DISTINCT c1.SID FROM CATALOG c1 WHERE c1.COST > ( SELECT AVG(c2.COST) FROM CATALOG c2 WHERE c2.PID = c1.PID ) ...	2 row(s) returned	0.000 sec / 0.000 sec
24	11:47:10	SELECT p.PID, s.SNAME FROM PARTS p JOIN CATALOG C ON p.PID = c.PID JOIN SUPPLIERS s ON c.SID = s.SID WHERE c.COST = ( SELECT ...	6 row(s) returned	0.000 sec / 0.000 sec
25	11:47:21	SELECT P.PID, P.PNAME, C.COST, S.SID, S.SNAME FROM CATALOG C JOIN PARTS P ON C.PID = P.PID JOIN SUPPLIERS S ON C.SID = S.SID W...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



File Edit View Query Database Server Tools Scripting Help



Navigator  
Schemas  
Filter objects  
atharv  
bank  
bank074  
bank1  
bank17  
bank1\_database  
bank2  
bank3  
bank\_database  
bank\_database\_128  
bank\_insurance  
bank\_insurancee  
banks074  
college  
college\_128  
college\_128j  
college\_136  
emp  
empi  
employee  
Administration Schemas

No object selected  
Information  
No object selected

Query 1  
116  
117  
118 • SELECT P.PID, P.PNAME, C.COST, S.SID, S.SNAME  
FROM CATALOG C  
JOIN PARTS P ON C.PID = P.PID  
JOIN SUPPLIERS S ON C.SID = S.SID  
WHERE C.COST = (SELECT MAX(COST) FROM CATALOG);  
123  
124 • SELECT \*  
FROM SUPPLIERS S  
WHERE S.SID NOT IN (

```
    SELECT C.SID
    FROM CATALOG C
    JOIN PARTS P ON C.PID = P.PID
    WHERE P.COLOR = 'red'
);
```

132  
133 • SELECT S.SID, S.SNAME, SUM(C.COST) AS TOTAL\_VALUE  
FROM SUPPLIERS S  
LEFT JOIN CATALOG C ON S.SID = C.SID  
136 GROUP BY S.SID, S.SNAME;

SQLAdditions  
SQL Additions  
Jump to

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

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	SID	SNAME	CITY
▶	10003	vimal	mumbai
▶	10004	reliance	delhi
*	HULL	HULL	HULL

Result Grid  
Form Editor  
Field Types

SUPPLIERS 19 x

Context Help Snippets

Apply

Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
26	11:47:27	SELECT * FROM SUPPLIERS S WHERE S.SID NOT IN (	SELECT C.SID FROM CATALOG C JOIN PARTS P ON C.PID = P.PID WHERE P.C... 2 row(s) returned	0.000 sec / 0.000 sec
27	11:48:02	SELECT P.PID, P.PNAME, C.COST, S.SID, S.SNAME FROM CATALOG C JOIN PARTS P ON C.PID = P.PID JOIN SUPPLIERS S ON C.SID = S.SID WHERE S.SID NOT IN (	SELECT C.SID FROM CATALOG C JOIN PARTS P ON C.PID = P.PID WHERE P.C... 1 row(s) returned	0.000 sec / 0.000 sec
28	11:48:05	SELECT * FROM SUPPLIERS S WHERE S.SID NOT IN (	SELECT C.SID FROM CATALOG C JOIN PARTS P ON C.PID = P.PID WHERE P.C... 2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



11:48:06  
14-11-2025

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

- Top Bar:** MySQL Workbench, File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (atharv, bank, bank074, bank1, bank17, bank1\_database, bank2, bank3, bank\_database, bank\_database\_128, bank\_insurance, bank\_insurancee, banks074, college, college\_128, college\_128j, college\_136, emp, emp1, employee).
- Query Editor (Query 1):** Contains a multi-line SQL script with numbered lines 122 through 142. The script performs several joins and aggregate functions on tables like CATALOG, PARTS, and SUPPLIERS.
- Results Grid:** Shows the output of the query as a table with columns SID, SNAME, and TOTAL\_VALUE. The data is:

SID	SNAME	TOTAL_VALUE
10001	acene widget	70.00
10002	johns	30.00
10003	vimal	30.00
10004	reliance	40.00
- Output Panel:** Action Output table showing the execution history of the query:

#	Time	Action	Message	Duration / Fetch
27	11:48:02	SELECT P.PID, P.PNAME, C.COST, S.SID, S.SNAME FROM CATALOG C JOIN PARTS P ON C.PID = P.PID JOIN SUPPLIERS S ON S.SID = C.SID WHERE C.COST = (SELECT MAX(COST) FROM CATALOG);	1 row(s) returned	0.000 sec / 0.000 sec
28	11:48:05	SELECT * FROM SUPPLIERS S WHERE S.SID NOT IN ( SELECT C.SID FROM CATALOG C JOIN PARTS P ON C.PID = P.PID WHERE P.C... )	2 row(s) returned	0.000 sec / 0.000 sec
29	11:48:15	SELECT S.SID, S.SNAME, SUM(C.COST) AS TOTAL_VALUE FROM SUPPLIERS S LEFT JOIN CATALOG C ON S.SID = C.SID GROUP BY S.SID, S.SNAME;	4 row(s) returned	0.000 sec / 0.000 sec
- Help and Additions:** SQLAdditions panel with a note about context help.

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar has sections for Navigator (Schemas, Administration, Schemas), Information (No object selected), and Object Info/Session. The main area features a 'Query 1' tab with a large block of SQL code. Below it is a 'Result Grid' showing one row of data: SID 10001 and SNAME acene widget. On the right, there's a 'SQL Additions' panel with a note about context help being disabled. At the bottom, a 'Result 21' tab displays a log of three actions with their details.

```
128     FROM CATALOG C
129     JOIN PARTS P ON C.PID = P.PID
130     WHERE P.COLOR = 'red'
131   );
132
133 •   SELECT S.SID, S.SNAME, SUM(C.COST) AS TOTAL_VALUE
134     FROM SUPPLIERS S
135     LEFT JOIN CATALOG C ON S.SID = C.SID
136     GROUP BY S.SID, S.SNAME;
137
138 •   SELECT S.SID, S.SNAME
139     FROM SUPPLIERS S
140     JOIN CATALOG C ON S.SID = C.SID
141     WHERE C.COST < 20
142     GROUP BY S.SID, S.SNAME
143     HAVING COUNT(*) >= 2;
144
145 •   SELECT C.SID, S.SNAME, C.PID, P.PNAME, C.COST
146     FROM CATALOG C
147     JOIN SUPPLIERS S ON C.SID = S.SID
148     JOIN PARTS P ON C.PID = P.PID
```

SID	SNAME
10001	acene widget

Result 21 x

#	Time	Action	Message	Duration / Fetch
28	11:48:05	SELECT * FROM SUPPLIERS S WHERE S.SID NOT IN (	SELECT C.SID FROM CATALOG C JOIN PARTS P ON C.PID = P.PID WHERE P.C... 2 row(s) returned	0.000 sec / 0.000 sec
29	11:48:15	SELECT S.SID, S.SNAME, SUM(C.COST) AS TOTAL_VALUE FROM SUPPLIERS S LEFT JOIN CATALOG C ON S.SID = C.SID GROUP BY S.SID, S.SNAME; 4 row(s) returned		0.000 sec / 0.000 sec
30	11:48:23	SELECT S.SID, S.SNAME FROM SUPPLIERS S JOIN CATALOG C ON S.SID = C.SID WHERE C.COST < 20 GROUP BY S.SID, S.SNAME HAVING CO... 1 row(s) returned		0.000 sec / 0.000 sec



## Navigator

- Schemas
- atharv
  - bank
  - bank074
  - bank1
  - bank17
  - bank1\_database
  - bank2
  - bank3
  - bank\_database
  - bank\_database\_128
  - bank\_insurance
  - bank\_insurancee
  - bankscs074
  - college
  - college\_128
  - college\_128j
  - college\_136
  - emp
  - empi
  - employee
- Administration Schemas

## Information

No object selected

```

137
138 •   SELECT S.SID, S.SNAME
139   FROM SUPPLIERS S
140   JOIN CATALOG C ON S.SID = C.SID
141   WHERE C.COST < 20
142   GROUP BY S.SID, S.SNAME
143   HAVING COUNT(*) >= 2;
144
145 •   SELECT C.SID, S.SNAME, C.PID, P.PNAME, C.COST
146   FROM CATALOG C
147   JOIN SUPPLIERS S ON C.SID = S.SID
148   JOIN PARTS P ON C.PID = P.PID
149   WHERE (C.PID, C.COST) IN (
150       SELECT PID, MIN(COST)
151       FROM CATALOG
152       GROUP BY PID
153   );
154
155 •   CREATE VIEW supplier_part_count AS
156     SELECT S.SID, S.SNAME, COUNT(C.PID) AS TOTAL_PARTS
157     FROM SUPPLIERS S

```

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

SID	SNAME	PID	PNAME	COST
10001	acene widget	20001	book	10.00
10001	acene widget	20002	pen	10.00
10001	acene widget	20003	pencil	30.00
10001	acene widget	20004	mobile	10.00
10001	acene widget	20005	charger	10.00
10002	johns	20001	book	10.00
10003	vimal	20003	pencil	30.00

Result Grid  
Form Editor  
Field Types

## Result 22

Read Only

Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
29	11:48:15	SELECT S.SID, S.SNAME, SUM(C.COST) AS TOTAL_VALUE FROM SUPPLIERS S LEFT JOIN CATALOG C ON S.SID = C.SID GROUP BY S.SID, S.SNAME	4 row(s) returned	0.000 sec / 0.000 sec
30	11:48:23	SELECT S.SID, S.SNAME FROM SUPPLIERS S JOIN CATALOG C ON S.SID = C.SID WHERE C.COST < 20 GROUP BY S.SID, S.SNAME HAVING COUNT(*) >= 2;	1 row(s) returned	0.000 sec / 0.000 sec
31	11:48:34	SELECT C.SID, S.SNAME, C.PID, P.PNAME, C.COST FROM CATALOG C JOIN SUPPLIERS S ON C.SID = S.SID JOIN PARTS P ON C.PID = P.PID WHERE (C.PID, C.COST) IN (SELECT PID, MIN(COST) FROM CATALOG GROUP BY PID);	7 row(s) returned	0.000 sec / 0.000 sec



## Navigator

Schemas
Filter objects
atharv
bank
bank074
bank1
bank17
bank1_database
bank2
bank3
bank_database
bank_database_128
bank_insurance
bank_insurancee
banks074
college
college_128
college_128j
college_136
emp
empi
employee

Administration Schemas

Information

No object selected

```

139  FROM SUPPLIERS S
140  JOIN CATALOG C ON S.SID = C.SID
141  WHERE C.COST < 20
142  GROUP BY S.SID, S.SNAME
143  HAVING COUNT(*) >= 2;
144
145 •  SELECT C.SID, S.SNAME, C.PID, P.PNAME, C.COST
146  FROM CATALOG C
147  JOIN SUPPLIERS S ON C.SID = S.SID
148  JOIN PARTS P ON C.PID = P.PID
149  WHERE (C.PID, C.COST) IN (
150      SELECT PID, MIN(COST)
151      FROM CATALOG
152      GROUP BY PID
153  );
154
155 •  CREATE VIEW supplier_part_count AS
156  SELECT S.SID, S.SNAME, COUNT(C.PID) AS TOTAL_PARTS
157  FROM SUPPLIERS S
158  LEFT JOIN CATALOG C ON S.SID = C.SID
159  GROUP BY S.SID, S.SNAME;
160
161 •  CREATE VIEW most_expensive_supplier_per_part AS
162  SELECT C.SID, S.SNAME, C.PID, P.PNAME, C.COST
163  FROM CATALOG C
164  JOIN SUPPLIERS S ON C.SID = S.SID
165  JOIN PARTS P ON C.PID = P.PID
166  WHERE (C.PID, C.COST) IN (
167      SELECT PID, MAX(COST)
168      FROM CATALOG
169      GROUP BY PID
170  );

```

SQLAdditions  
 ⏪ ⏹ ⏺ ⏻ ⏻ Jump to

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

Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
32	11:48:41	CREATE VIEW supplier_part_count AS SELECT S.SID, S.SNAME, COUNT(C.PID) AS TOTAL_PARTS FROM SUPPLIERS S LEFT JOIN CATALOG C O...	0 row(s) affected	0.000 sec
33	11:48:45	CREATE VIEW supplier_part_count AS SELECT S.SID, S.SNAME, COUNT(C.PID) AS TOTAL_PARTS FROM SUPPLIERS S LEFT JOIN CATALOG C O...	Error Code: 1050. Table 'supplier_part_count' already exists	0.000 sec
34	11:48:49	CREATE VIEW most_expensive_supplier_per_part AS SELECT C.SID, S.SNAME, C.PID, P.PNAME, C.COST FROM CATALOG C JOIN SUPPLIERS S O...	0 row(s) affected	0.000 sec

Object Info Session

Query Completed

