

## INPUTS

MySQL Workbench

RakshitK07 X

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

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

INSTANCE

- Status / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas Information

No object selected

emp2

```
114 JOIN ASSIGNED_TO_A ON E.EMPNO=A.EMPNO
115 JOIN PROJECT P ON A.PROJECT_ID=P.PROJ_ID WHERE D.DLOC=P.PLLOC
116
117 /*list name of manager with max employee*/
118 • SELECT E.ENAME AS Manager_Name
119 FROM EMPLOYEE E
120 JOIN EMPLOYEE M ON E.EMPNO = M.MGR_NO
121 GROUP BY E.ENAME
122 HAVING COUNT(M.EMPNO) = (
123     SELECT MAX(COUNT_SUB)
124     FROM (
125         SELECT COUNT(MGR_NO) AS COUNT_SUB
126         FROM EMPLOYEE
127         WHERE MGR_NO IS NOT NULL
128         GROUP BY MGR_NO
129     ) AS COUNT
130 )
131
132 /*display those manager names who salary is more than avg*/
133 • SELECT M.ENAME AS MANAGER_NAME
134 FROM EMPLOYEE M
135 WHERE M.SAL > (
136     SELECT AVG(E.SAL)
```

Result Grid [ Filter Rows ] Report [ Wrap Cell Content ]

EMPNO	ENAME	MGR_NO	HIREDATE	SM	DEPTNO
101	Ananya	102	2020-06-10	55000.00	10

Result 12 x

Output

Action Output

```
28 08:52:23 INSERT INTO INCENTIVES VALUES (107, 2019-04-21, 1700, (102, 2019-05-25, 1700))
29 08:52:28 SELECT * FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN 2019-01-01 AND 2019-01-31 AND INCENTIVE_AMOUNT < ( SELECT
30 08:52:31 INSERT INTO INCENTIVES VALUES (107, 2019-01-10, 2600), (102, 2019-01-15, 2600), (104, 2019-01-20, 3000), (105, 2019-01-25, 3000)
31 08:52:31 SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department FROM EMPLOYEE E JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO
32 08:52:40 SELECT E.* FROM EMPLOYEE E JOIN INCENTIVES I ON E.EMPNO = I.EMPNO WHERE INCENTIVE_DATE BETWEEN 2019-01-07 AND 2019-
```

Object Info Session

SQLAdditions

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

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the Navigator, Management, Performance, and Administration tabs. The main area shows a SQL worksheet with the following code:

```
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PERFORMANCE
  Dashboard
  Performance Report
  Performance Schema Setup
Administration Schemas
Information
No object selected

SQL Worksheet
SELECT E.ENAME AS MANAGER_NAME
FROM EMPLOYEE M
WHERE M.SAL > (
  SELECT AVG(E.SAL)
  FROM EMPLOYEE E
  WHERE E.MGR_NO = M.EMPNO
)
--Find the names of 2nd top level managers of each department/
SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department
FROM EMPLOYEE E
JOIN EMPLOYEE M ON E.MGR_NO = M.EPINO
JOIN DEPT D ON E.DEPTNO = D.DEPTNO
WHERE M.MGR_NO IS NULL;
--Find the employee details who got second maximum incentive in January 2019*
SELECT E.*
FROM EMPLOYEE E
JOIN INCENTIVES I ON E.EPINO = I.EPINO
Result Grid | Refresh | Previous | Next | Last | First | Report | Wrap Cell Content | 
EMPNO ENAME HIRING_DATE SAL DEPTNO
101 Analyst 2020-06-10 55000.00 10

Result 12 x
Output
Action Output
# Time Action
1 28-06-23 INSERT INTO INCENTIVES VALUES (107, 2019-04-24, 1700, 101, 2019-04-25, 1700, 101, 2019-07-07, 1700)
2 29-06-28 SELECT * FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN 2019-01-01 AND 2019-01-31 AND INCENTIVE_AMOUNT <= SELECT ...
Message
3 rows affected Record 3 Duplicates 0 Warnings 0
Duration / Fetch
0.000 sec
0.000 sec
0.000 sec
0.000 sec
```

MySQL Workbench - RakshitKR

File Edit View Query Database Server Tools Scripting Help

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Information

```

144 JOIN EMPLOYEE E ON E.MGR_ID = M.EMPNO
145 JOIN DEPT D ON E.DEPTNO = D.DEPTNO
146 WHERE M.MGR_ID IS NULL;
147
148 /*Find the employee details who got second maximum incentive in January 2019*/
149 SELECT E.*
150 FROM EMPLOYEE E
151 JOIN INCENTIVES I ON E.EMPNO = I.EMPNO
152 WHERE I.INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
153 AND I.INCENTIVE_AMOUNT = (
154     SELECT MAX(INCENTIVE_AMOUNT)
155     FROM INCENTIVES
156     WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
157     AND INCENTIVE_AMOUNT < (
158         SELECT MAX(INCENTIVE_AMOUNT)
159         FROM INCENTIVES
160         WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
161     )
162 )
163
164 /*display those employees who are working in same department where their manager is working*/
165 SELECT E.ENAME AS EMPLOYEE_NAME, E.DEPTNO, M.ENAME AS MANAGER_NAME
166 FROM EMPLOYEE E
167 JOIN EMPLOYEE M ON E.MGR_ID = M.EMPNO
168 WHERE E.DEPTNO = M.DEPTNO

```

No object selected

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

EMPNO	ENAME	MGR_ID	HIREDATE	SAL	DEPTNO
101	Ananya	1000	2020-06-10	55000.00	10

Action Output

#	Time	Action	Message	Duration / Fetch
28	08:45:23	INSERT INTO INCENTIVES VALUES (107, '2019-04-24', 1700, (102, '2019-08-25', 1700, (101, '2019-07-27', 1700)	3 rows) affected Records: 3 Duplicates: 0 Warnings: 0	0.000 sec
29	08:45:28	SELECT * FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31' AND INCENTIVE_AMOUNT > ( SELECT ... 0 rows) returned		0.000 sec / 0.000 sec
30	08:45:31	INSERT INTO INCENTIVES VALUES (101, '2019-01-10', 4000, (102, '2019-01-12', 2500, (103, '2019-01-15', 3500, (104, '2019-01-20', 3000, (105, '2019-01-22', 3500, (106, '2019-01-24', 3000, (107, '2019-01-26', 3000, (108, '2019-01-28', 3000, (109, '2019-01-30', 3000, (110, '2019-01-31', 3000)	5 rows) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec

Result 12 | Output | Action Output | Read Only | Context Help | Snippets

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Administration Schemas

Information

```

151 JOIN INCENTIVES I ON E.EMPNO = I.EMPNO
152 WHERE I.INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
153 AND I.INCENTIVE_AMOUNT = (
154     SELECT MAX(INCENTIVE_AMOUNT)
155     FROM INCENTIVES
156     WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
157     AND INCENTIVE_AMOUNT < (
158         SELECT MAX(INCENTIVE_AMOUNT)
159         FROM INCENTIVES
160         WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
161     )
162 )
163
164 /*display those employees who are working in same department where their manager is working*/
165 SELECT E.ENAME AS EMPLOYEE_NAME, E.DEPTNO, M.ENAME AS MANAGER_NAME
166 FROM EMPLOYEE E
167 JOIN EMPLOYEE M ON E.MGR_ID = M.EMPNO
168 WHERE E.DEPTNO = M.DEPTNO

```

No object selected

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

EMPNO	ENAME	MGR_ID	HIREDATE	SAL	DEPTNO
101	Ananya	1000	2020-06-10	55000.00	10

Action Output

#	Time	Action	Message	Duration / Fetch
28	08:45:23	INSERT INTO INCENTIVES VALUES (107, '2019-04-24', 1700, (102, '2019-08-25', 1700, (101, '2019-07-27', 1700)	3 rows) affected Records: 3 Duplicates: 0 Warnings: 0	0.000 sec
29	08:45:28	SELECT * FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31' AND INCENTIVE_AMOUNT > ( SELECT ... 0 rows) returned		0.000 sec / 0.000 sec
30	08:45:31	INSERT INTO INCENTIVES VALUES (101, '2019-01-10', 4000, (102, '2019-01-12', 2500, (103, '2019-01-15', 3500, (104, '2019-01-20', 3000, (105, '2019-01-22', 3500, (106, '2019-01-24', 3000, (107, '2019-01-26', 3000, (108, '2019-01-28', 3000, (109, '2019-01-30', 3000, (110, '2019-01-31', 3000)	5 rows) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
31	08:47:17	SELECT E.ENAME AS Second_Level_Manager, O.DNAME AS Department FROM EMPLOYEE E JOIN EMPLOYEE M ON E.MGR_ID = M.EMPNO	3 rows) returned	0.000 sec / 0.000 sec
32	08:50:40	SELECT E.* FROM EMPLOYEE E JOIN INCENTIVES I ON E.EMPNO = I.EMPNO WHERE I.INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'	1 rows) returned	0.000 sec / 0.000 sec

Result 12 | Output | Action Output | Read Only | Context Help | Snippets

## OUTPUTS

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, Help, and a toolbar with various icons. The left sidebar has sections for MANAGEMENT (Server Status, Client Connections, User Privileges, Data and System Variables, Data Export, Data Import/Restore), INSTANCE (Status / Shutdown, Server Logs, Options File), PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup), Administration (Schemas, Information), and No object selected. The main area displays a query editor with the following SQL code:

```
199 • SELECT E.EMPNO,E.ENAME,D.DNAME,A.DOB_ROLE,
200 D.DLOC AS DEPT_LOCATION,
201 P.PLOC AS PROJECT_LOCATION
202 FROM EMPLOYEE E
203 JOIN DEPT D ON E.DEPTNO=D.DEPTNO
204 JOIN ASSIGNED_TO A ON E.EMPNO=A.EMPNO
205 JOIN PROJECT P ON A.PROJNO=P.PROJNO WHERE D.DLOC=P.PLOC;
206
207 /*list name of manager with max employee*/
208 • SELECT E.ENAME AS Manager_Name,
209 FROM EMPLOYEE E
210 JOIN EMPLOYEE M ON E.EMPNO = M.MGR_NO
211 GROUP BY E.ENAME
212 HAVING COUNT(M.EMPNO) = (
213     SELECT MAX(COUNT_SUB)
214     FROM (
215         SELECT COUNT(MGR_NO) AS COUNT_SUB
216         FROM EMPLOYEE
217         WHERE MGR_NO IS NOT NULL
218         GROUP BY MGR_NO
219     ) AS COUNT
220 );
221
222
223
224
225
226
227
228
229
230
231
```

Below the query editor is a Result Grid with columns Manager\_Name and AnyKey. The Manager\_Name column contains one row with the value 'Amanya'. At the bottom right, there are buttons for Result Grid, Read Only, Contact Help, and Snippets.

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RakshitR0 X

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Navigator

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INSTANCE

- Startup / Shutdown
- Server Log
- Opener File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

emp0

```
124 FROM (
125     SELECT COUNT(MGR_NO) AS COUNT_SUB
126     FROM EMPLOYEE
127     WHERE MGR_NO IS NOT NULL
128     GROUP BY MGR_NO
129 ) AS COUNT
130 )
131
132 /*display those manager names who salary is more than avg*/
133 • SELECT M.ENAME AS MANAGER_NAME
134   FROM EMPLOYEE M
135   WHERE M.SAL > (
136       SELECT AVG(E.SAL)
137       FROM EMPLOYEE E
138       WHERE E.MGR_NO = M.EMPNO
139   )
140
141 /*Find the names of 2nd top level managers of each department*/
142 • SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department
143   FROM EMPLOYEE E
144   JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO
145   JOIN DEPT D ON E.DEPTNO = D.DEPTNO
146   WHERE M.MGR_NO IS NULL;
```

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

MANAGER_NAME
Rahul
Villas

EMPLOYEE 14 x

Output

Action Output

#	Time	Action
1	2023-10-10 14:45:23	Message

Read Only Context Help Snippets

Duration / Fetch

SQL Additions

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 X

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

```

133 • SELECT M.ENAME AS MANAGER_NAME
134   FROM EMPLOYEE M
135   WHERE M.SAL > (
136     SELECT AVG(E.SAL)
137     FROM EMPLOYEE E
138     WHERE E.MGR_NO = M.EMPNO
139   )
140
141 /*Find the names of 2nd top level managers of each department*/
142 • SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department
143   FROM EMPLOYEE E
144   JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO
145   JOIN DEPT D ON E.DEPTNO = D.DEPTNO
146   WHERE M.MGR_NO IS NULL;
147
148 /*Find the employee details who got second maximum incentive in January 2019*/
149 • SELECT E.*
150   FROM EMPLOYEE E
151   JOIN INCENTIVES I ON E.EMPNO = I.EMPNO
152   WHERE I.INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
153   AND I.INCENTIVE_AMOUNT = (
154     SELECT MAX(INCENTIVE_AMOUNT)
155     FROM INCENTIVES
156     WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
157     AND INCENTIVE_AMOUNT < (
158       SELECT MAX(INCENTIVE_AMOUNT)
159       FROM INCENTIVES
160       WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
161     )
162   );
163
164 /*display those employees whop are working in same department where their manager is working*/
165 • SELECT E.ENAME AS Manager_Name, E.DEPTNO, M.ENAME AS Employee_Name
166   FROM EMPLOYEE E
167   JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO
168   WHERE E.DEPTNO = M.DEPTNO;

```

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

Second_Level_Manager	Department
Priya	HR
Rahul	Finance
Vikas	Marketing

Action Output

#	Time	Action	Message	Duration / Fetch
31	08:47:17	SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department	3 rows(s) returned	0.000 sec / 0.000 sec
32	08:47:40	SELECT E.* FROM EMPLOYEE E JOIN INCENTIVES I ON E.EMPNO = I.EMPNO WHERE INCENTIVE_DATE BETWEEN 2019-01-01 AND 2019-01-31 AND I.INCENTIVE_AMOUNT = (	1 row(s) returned	0.000 sec / 0.000 sec
33	09:11:23	SELECT E.ENAME AS Manager_Name FROM EMPLOYEE E JOIN EMPLOYEE M ON E.EMPNO = M.EMPNO GROUP BY E.ENAME HAVING CO...	1 row(s) returned	0.000 sec / 0.000 sec
34	09:11:42	SELECT E.ENAME AS Manager_Name FROM EMPLOYEE E WHERE M.SAL > ( SELECT AVG(E.SAL) FROM EMPLOYEE E WHERE E...	2 row(s) returned	0.000 sec / 0.000 sec

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

RakshitKR X

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

```

142 • SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department
143   FROM EMPLOYEE E
144   JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO
145   JOIN DEPT D ON E.DEPTNO = D.DEPTNO
146   WHERE M.MGR_NO IS NULL;
147
148 /*Find the employee details who got second maximum incentive in January 2019*/
149 • SELECT E.*
150   FROM EMPLOYEE E
151   JOIN INCENTIVES I ON E.EMPNO = I.EMPNO
152   WHERE I.INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
153   AND I.INCENTIVE_AMOUNT = (
154     SELECT MAX(INCENTIVE_AMOUNT)
155     FROM INCENTIVES
156     WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
157     AND INCENTIVE_AMOUNT < (
158       SELECT MAX(INCENTIVE_AMOUNT)
159       FROM INCENTIVES
160       WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
161     )
162   );
163
164 /*display those employees whop are working in same department where their manager is working*/
165 • SELECT E.ENAME AS Manager_Name, E.DEPTNO, M.ENAME AS Employee_Name
166   FROM EMPLOYEE E
167   JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO
168   WHERE E.DEPTNO = M.DEPTNO;

```

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

EMPNO	ENAME	MGR_NO	HIREDATE	SAL	DEPTNO
101	Ananya		2020-06-30	58000.00	10

Action Output

#	Time	Action	Message	Duration / Fetch
32	08:59:40	SELECT E.* FROM EMPLOYEE E JOIN INCENTIVES I ON E.EMPNO = I.EMPNO WHERE INCENTIVE_DATE BETWEEN 2019-01-01 AND 2019-01-31	1 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

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MySQL Workbench

RakshitKR X

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

```

146 WHERE M.MGR_NO IS NULL;
147
148 /*Find the employee details who got second maximum incentive in January 2019*/
149 • SELECT E.*
150   FROM EMPLOYEE E
151   JOIN INCENTIVES I ON E.EMPNO = I.EMPNO
152   WHERE I.INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
153   AND I.INCENTIVE_AMOUNT = (
154     SELECT MAX(INCENTIVE_AMOUNT)
155     FROM INCENTIVES
156     WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
157     AND INCENTIVE_AMOUNT < (
158       SELECT MAX(INCENTIVE_AMOUNT)
159       FROM INCENTIVES
160       WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
161     )
162   );
163
164 /*display those employees whop are working in same department where their manager is working*/
165 • SELECT E.ENAME AS Employee_Name, E.DEPTNO, M.ENAME AS Manager_Name
166   FROM EMPLOYEE E
167   JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO
168   WHERE E.DEPTNO = M.DEPTNO;

```

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

Employee_Name	DeptNo	Manager_Name
Priya	10	Ananya

Action Output

#	Time	Action	Message	Duration / Fetch
33	09:11:23	SELECT E.ENAME AS Manager_Name FROM EMPLOYEE E JOIN EMPLOYEE M ON E.EMPNO = M.EMPNO GROUP BY E.ENAME HAVING CO...	1 row(s) returned	0.000 sec / 0.000 sec
34	09:11:42	SELECT E.ENAME AS Manager_Name FROM EMPLOYEE E WHERE M.SAL > ( SELECT AVG(E.SAL) FROM EMPLOYEE E WHERE E...	2 row(s) returned	0.000 sec / 0.000 sec
35	09:17:01	SELECT E.ENAME AS Employee_Name, E.DEPTNO, M.ENAME AS Manager_Name FROM EMPLOYEE E JOIN EMPLOYEE M ON E.EMPNO = M.EMPNO	1 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

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