

MySQL Workbench

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114 JOIN ASSIGNED_TO A ON E.EMPNO=A.EMPNO

115 JOIN PROJECT P ON A.PROJ=P.PROJ WHERE D.DLOC=P.PLOC;

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 then avg*/

133 SELECT M.ENAME AS MANAGER_NAME

134 FROM EMPLOYEE M

135 WHERE M.SAL > (

136 SELECT avg(E.SAL)

Result Grid

EMPNO	ENAME	MGR_NO	HIREDATE	SAL	DEPTNO
101	Aranya	1000	2020-06-10	55000.00	10

Result 12 v

Output

Action Output

#	Time	Action	Message	Duration / Pctn
28	08:45:23	INSERT INTO INCENTIVES VALUES (107, 2019-04-24, 1700, (102, 2019-06-25, 1700), (101, 2019-07-27, 1700	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.000 sec / 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 row(s) returned	0.000 sec / 0.000 sec
30	08:46:31	INSERT INTO INCENTIVES VALUES (101, 2019-01-01, 4000, (102, 2019-01-12, 2600), (103, 2019-01-19, 2600), (104, 2019-01-30, 2000), (105, ...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec / 0.000 sec
31	08:47:17	SELECT E.ENAME AS Second_Jane_Manager, D.DNAME AS Department FROM EMPLOYEE E JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO ...	3 row(s) returned	0.000 sec / 0.000 sec
32	08:59:40	SELECT E * FROM EMPLOYEE E JOIN INCENTIVES I ON E.EMPNO = I.EMPNO WHERE I.INCENTIVE_DATE BETWEEN 2019-01-01 AND 2019-...	1 row(s) returned	0.000 sec / 0.000 sec

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

[illegible]

MySQL Workbench

Rakshit@R

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Information

No object selected

```

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 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
  
```

Result Grid

EMPNO	ENAME	MGR_NO	HIREDATE	SAL	DEPTNO
101	Aranya	100	2020-06-10	50000.00	10

Output

Action Output

#	Time	Action	Message	Duration / Fetch
28	08:45:23	INSERT INTO INCENTIVES VALUES (101,'2019-04-24',1700),(102,'2019-08-25',1700),(101,'2019-07-27',1700)	3 row(s) 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 row(s) returned	0.000 sec / 0.000 sec
30	08:46:31	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,...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec

SQL Additions

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Information

No object selected

```

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_NO = M.EMPNO
168 WHERE E.DEPTNO = M.DEPTNO;
169
170
171
172
173
  
```

Result Grid

EMPNO	ENAME	MGR_NO	HIREDATE	SAL	DEPTNO
101	Aranya	100	2020-06-10	50000.00	10

Output

Action Output

#	Time	Action	Message	Duration / Fetch
28	08:45:23	INSERT INTO INCENTIVES VALUES (101,'2019-04-24',1700),(102,'2019-08-25',1700),(101,'2019-07-27',1700)	3 row(s) 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 row(s) returned	0.000 sec / 0.000 sec
30	08:46:31	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,...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
31	08:47:17	SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department FROM EMPLOYEE E JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO	3 row(s) returned	0.000 sec / 0.000 sec
32	08:59:40	SELECT E.* FROM EMPLOYEE E JOIN INCENTIVES I ON E.EMPNO = I.EMPNO WHERE I.INCENTIVE_DATE BETWEEN '2019-01-01' AND 2019-...	1 row(s) returned	0.000 sec / 0.000 sec

SQL Additions

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OUTPUTS

This screenshot shows a MySQL Workbench interface with a complex SQL query in the editor. The query is a multi-level join and aggregation. The result grid shows one row with the manager name 'Ananya'.

```
109 SELECT E.EMPNO, E.ENAME, D.DNAME, A.JOB_ROLE,  
110 D.DLOC AS DEPT_LOCATION,  
111 P.PLOC AS PROJECT_LOCATION  
112 FROM EMPLOYEE E  
113 JOIN DEPT D ON E.DEPTNO = D.DEPTNO  
114 JOIN ASSIGNED_TO A ON E.EMPNO = A.EMPNO  
115 JOIN PROJECT P ON A.PROJ = P.PROJ WHERE D.DLOC = P.PLOC  
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 ) AS COUNT  
131
```

Result Grid:

Manager_Name
Ananya

This screenshot shows a MySQL Workbench interface with a complex SQL query in the editor. The query is a multi-level join and aggregation. The result grid shows two rows with the manager names 'Rahul' and 'Vikas'.

```
124 FROM C  
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 then 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:

MANAGER_NAME
Rahul
Vikas

Output:

Time	Action	Message	Duration / Fetch
30 08:46:31	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, '2019-01-25', 3500)	5 rows affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec

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Information

No object selected

```

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 who are working in same department where their manager is working*/

```

Result Grid

Second_Level_Manager	Department
Phoebe	HR
Rahul	Finance
Vikas	Marketing

Result 15

Output

Action Output

#	Time	Action	Message	Duration / Fetch
31	00:47:17	SELECT E.ENAME AS Second_Level_Manager, D.DNAME AS Department FROM EMPLOYEE E JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO	3 row(s) returned	0.000 sec / 0.000 sec
32	00:59:40	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' AND I.INCENTIVE_AMOUNT = (SELECT MAX(INCENTIVE_AMOUNT) FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31' AND INCENTIVE_AMOUNT < (SELECT MAX(INCENTIVE_AMOUNT) FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'))	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.MGR_NO GROUP BY E.ENAME HAVING CO.	1 row(s) returned	0.000 sec / 0.000 sec
34	09:11:42	SELECT M.ENAME AS Manager_Name FROM EMPLOYEE M WHERE M.SAL > (SELECT AVG(SAL) FROM EMPLOYEE E WHERE E.MGR_NO = M.EMPNO)	2 row(s) returned	0.000 sec / 0.000 sec

SQL Additions

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Information

No object selected

```

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 who are working in same department where their manager is working*/

```

Result Grid

EMPNO	ENAME	MGR_NO	HIREDATE	SAL	DEPTNO
101	Ananya	100	2020-06-10	50000.00	10

Result 16

Output

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 I.INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31' AND I.INCENTIVE_AMOUNT = (SELECT MAX(INCENTIVE_AMOUNT) FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31' AND INCENTIVE_AMOUNT < (SELECT MAX(INCENTIVE_AMOUNT) FROM INCENTIVES WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'))	1 row(s) returned	0.000 sec / 0.000 sec

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Information

No object selected

```

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 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_NO = M.EMPNO
168 WHERE E.DEPTNO = M.DEPTNO;

```

Result Grid

EMPLOYEE_NAME	DEPTNO	MANAGER_NAME
Phoebe	10	Ananya

Result 17

Output

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.MGR_NO 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 M WHERE M.SAL > (SELECT AVG(SAL) FROM EMPLOYEE E WHERE E.MGR_NO = M.EMPNO)	2 row(s) returned	0.000 sec / 0.000 sec
35	06:13:01	GET EMPLOYEE AS Second_Level_Manager FROM EMPLOYEE E JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO	1 row(s) returned	0.000 sec / 0.000 sec

SQL Additions

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