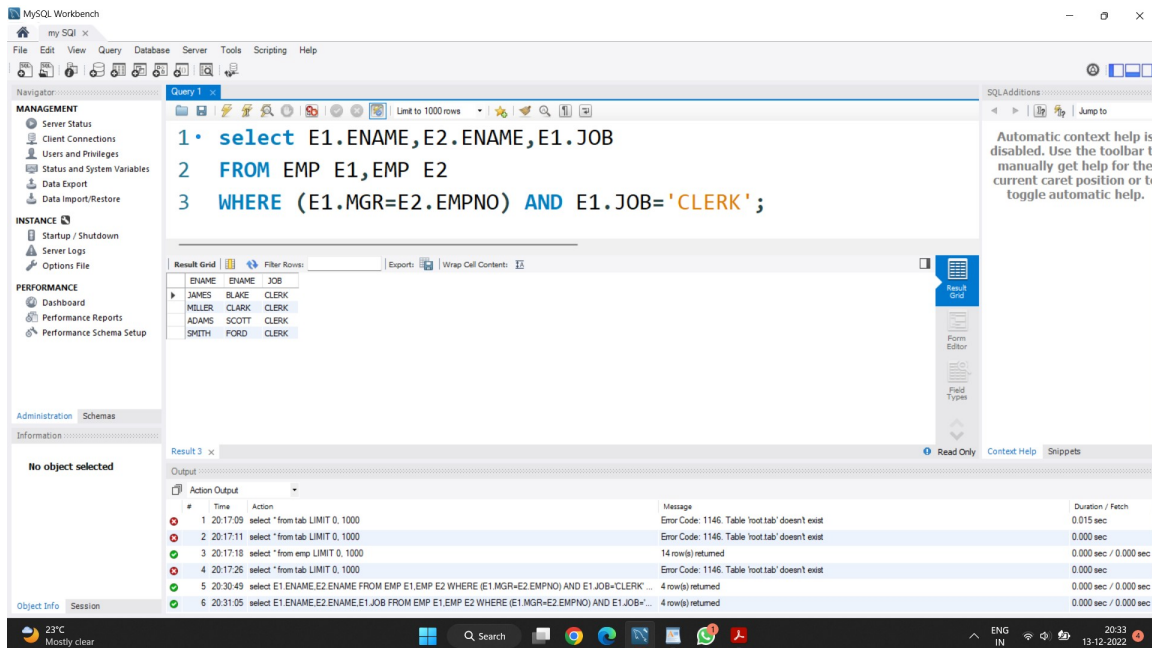


# ASSIGNMENT ON SELF-JOIN

## 12/12/2022.

1. WAQTD NAME OF THE EMPLOYEE AND HIS MANAGER'S NAME IF EMPLOYEE IS WORKING AS CLERK.



The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 • select E1.ENAME,E2.ENAME,E1.JOB
2 FROM EMP E1,EMP E2
3 WHERE (E1.MGR=E2.EMPNO) AND E1.JOB='CLERK';
```

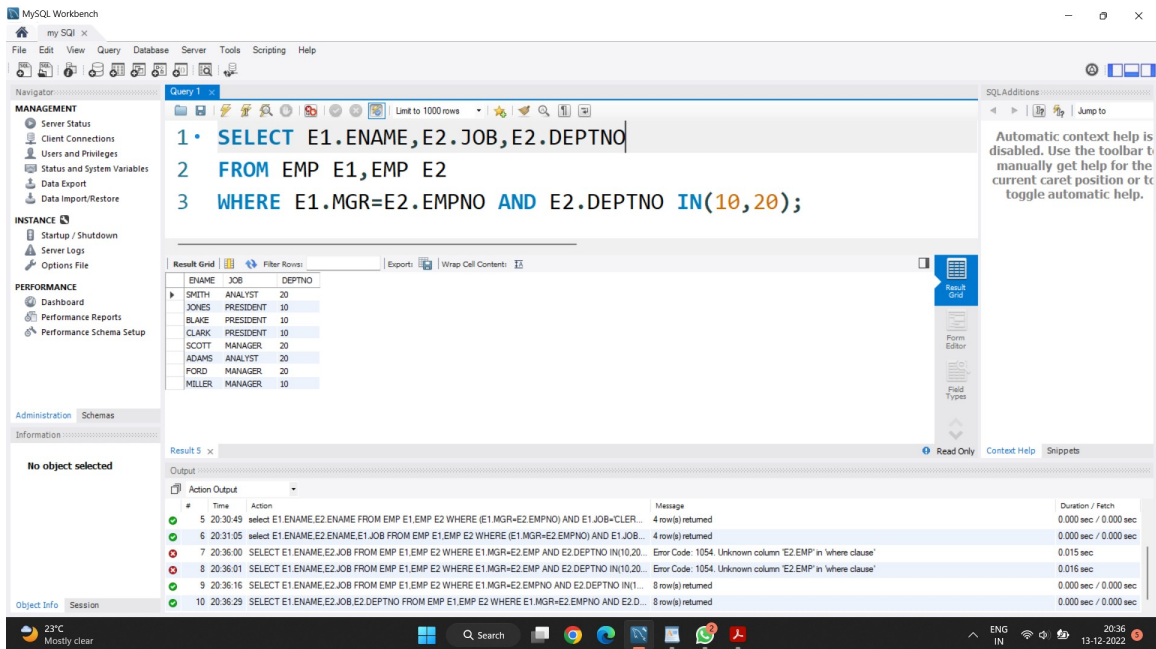
The Results Grid displays the following data:

ENAME	ENAME	JOB
JAMES	BLAKE	CLERK
MILLER	CLARK	CLERK
ADAMS	SCOTT	CLERK
SMITH	FORD	CLERK

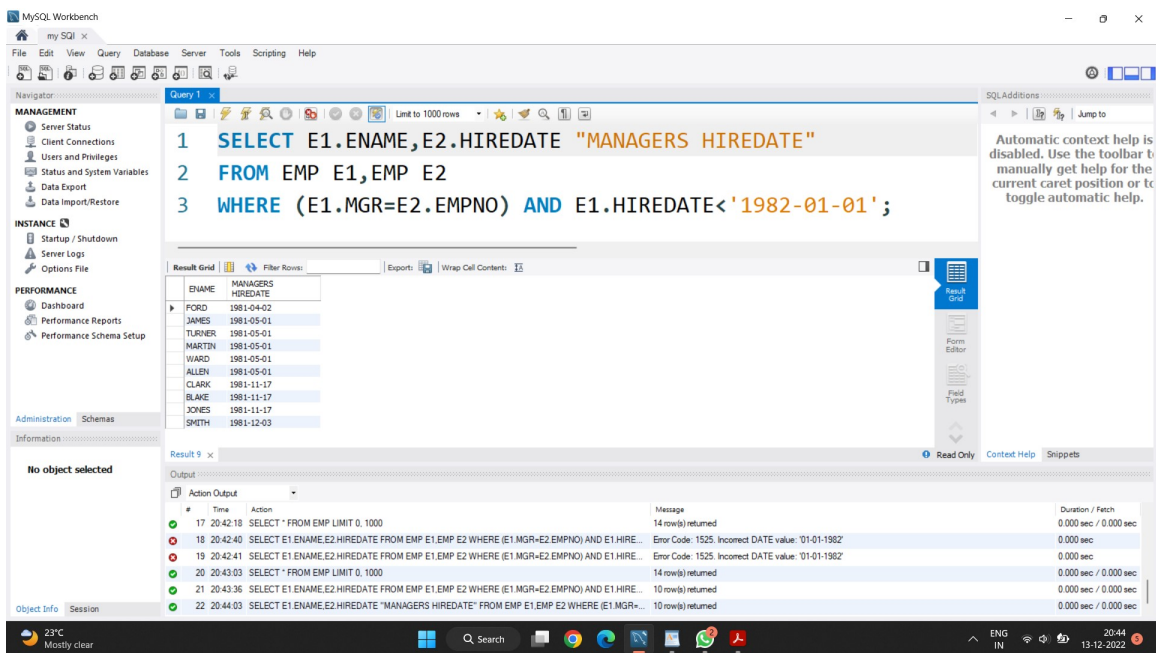
The Output tab shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
1	20:17:09	select * from tab LIMIT 0, 1000	Error Code: 1146. Table 'root.tab' doesn't exist	0.015 sec
2	20:17:11	select * from tab LIMIT 0, 1000	Error Code: 1146. Table 'root.tab' doesn't exist	0.000 sec
3	20:17:18	select * from emp LIMIT 0, 1000	14 row(s) returned	0.000 sec / 0.000 sec
4	20:17:26	select * from tab LIMIT 0, 1000	Error Code: 1146. Table 'root.tab' doesn't exist	0.000 sec
5	20:30:49	select E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.JOB='CLERK'	4 row(s) returned	0.000 sec / 0.000 sec
6	20:31:05	select E1.ENAME,E2.ENAME,E1.JOB FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.JOB='CLERK'	4 row(s) returned	0.000 sec / 0.000 sec

2. WAQTD NAME OF THE EMPLOYEE AND MANAGER'S DESIGNATION IF MANAGER WORKS IN DEPT 10 OR 20.

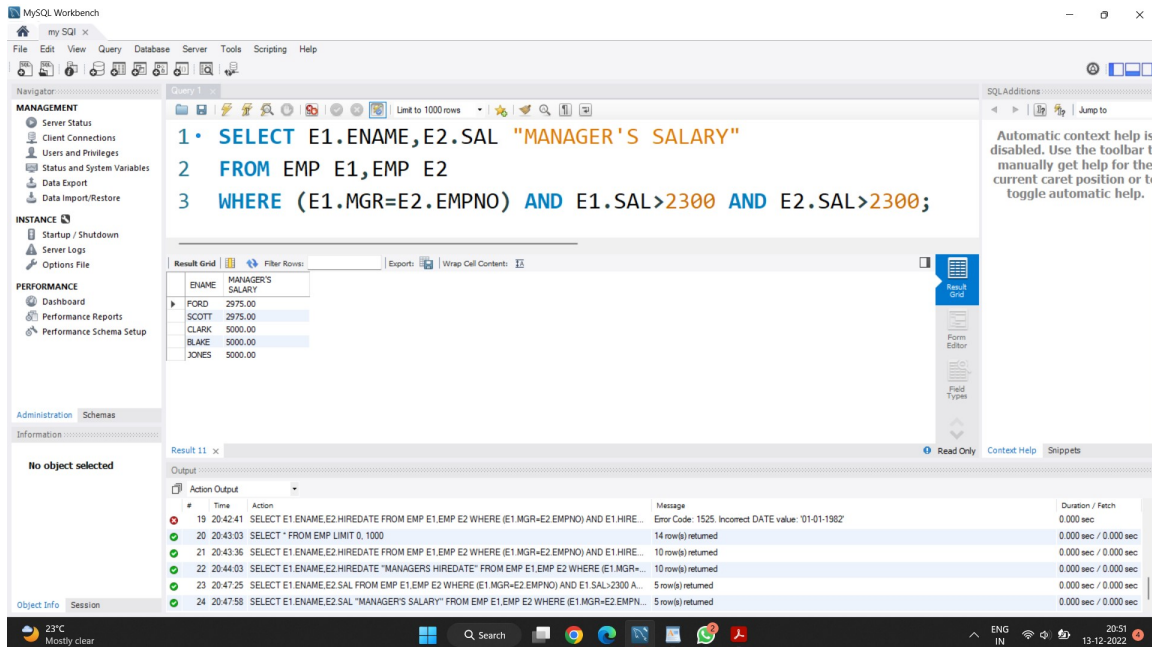


#### 4)WAQTD EMP NAME AND MANAGER'S HIREDATE IF EMPLOYEE WAS HIRED BEFORE1982



#### 3.WAQTD NAME OF THE EMP AND MANAGERS SALARY IF

EMPLOYEE AND MANAGER BOTH EARN MORE THAN 2300.



The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 • SELECT E1.ENAME,E2.SAL "MANAGER'S SALARY"
2 FROM EMP E1,EMP E2
3 WHERE (E1.MGR=E2.EMPNO) AND E1.SAL>2300 AND E2.SAL>2300;
```

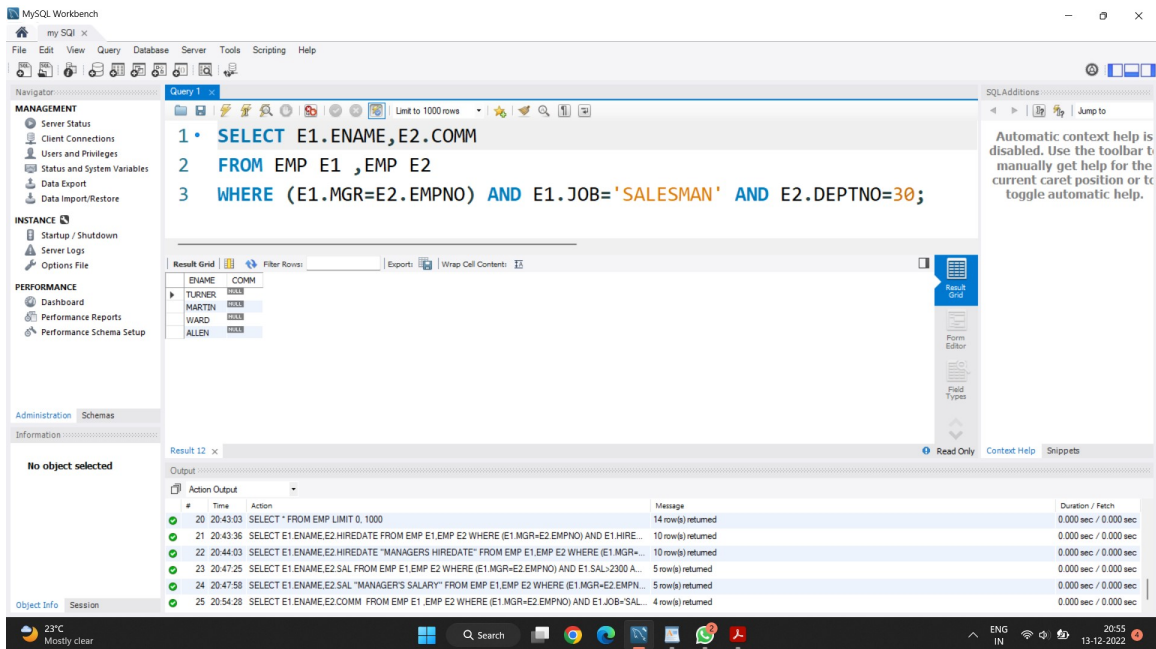
The results are displayed in a table with two columns: ENAME and MANAGER'S SALARY. The data is as follows:

ENAME	MANAGER'S SALARY
FORD	2975.00
SCOTT	2975.00
CLARK	5000.00
BLAKE	5000.00
JONES	5000.00

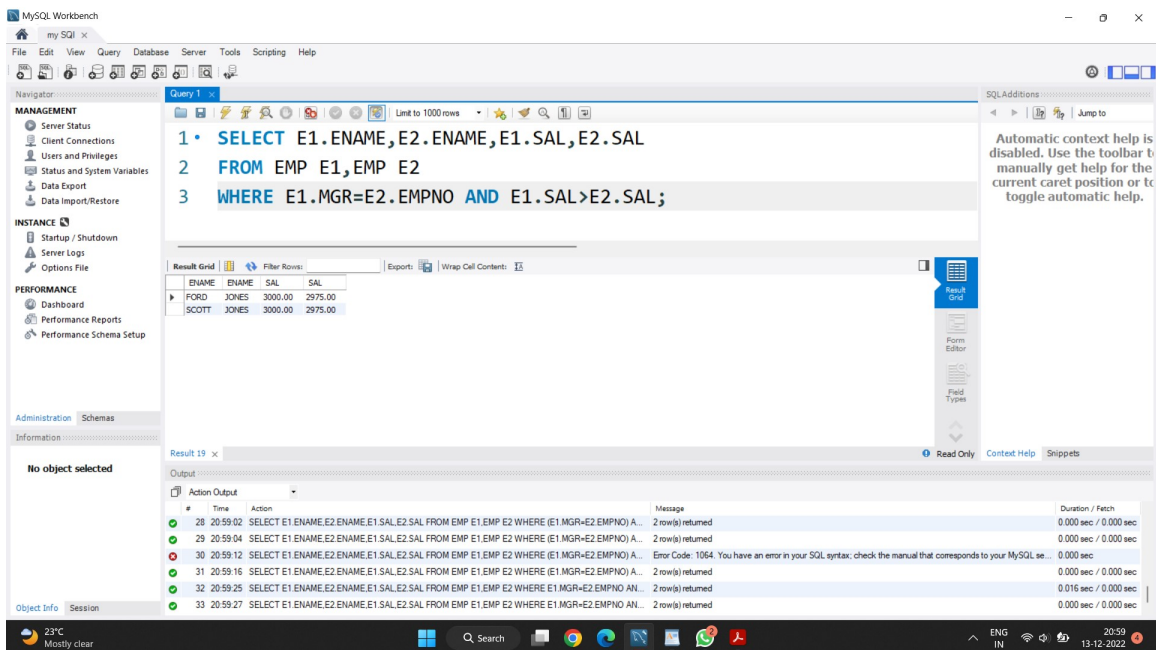
The bottom panel shows the Output window with a list of actions and their results. The actions are as follows:

#	Time	Action	Message	Duration / Fetch
19	20:42:41	SELECT E1.ENAME,E2.HIREDATE FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.HIRE...	Error Code: 1525. Incorrect DATE value: '01-01-1982'	0.000 sec
20	20:43:03	SELECT * FROM EMP LIMIT 0, 1000	14 row(s) returned	0.000 sec / 0.000 sec
21	20:43:36	SELECT E1.ENAME,E2.HIREDATE FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.HIRE...	10 row(s) returned	0.000 sec / 0.000 sec
22	20:44:03	SELECT E1.ENAME,E2.HIREDATE "MANAGERS HIREDATE" FROM EMP E1,EMP E2 WHERE (E1.MGR...	10 row(s) returned	0.000 sec / 0.000 sec
23	20:47:25	SELECT E1.ENAME,E2.SAL FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.SAL>2300 A...	5 row(s) returned	0.000 sec / 0.000 sec
24	20:47:58	SELECT E1.ENAME,E2.SAL "MANAGER'S SALARY" FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.SAL>2300 AND E2.SAL>2300;	5 row(s) returned	0.000 sec / 0.000 sec

5.WAQTD EMP NAME AND MANAGER'S COMM IF EMPLOYEE WORKS AS SALESMAN AND MANAGER WORKS IN DEPT 30 .

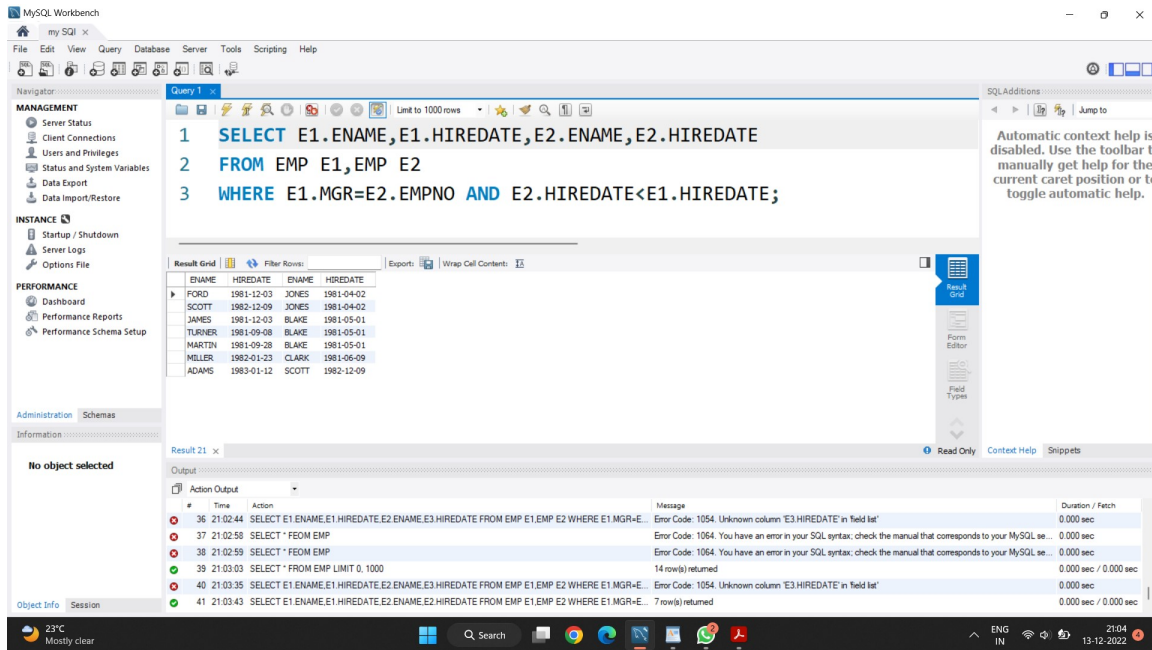


6.WAQTD EMP NAME AND MANAGER NAME AND THEIR SALARIES IF EMPLOYEE EARNS MORE THAN MANAGER .



7.WAQTD EMP NAME AND HIREDATE , MANAGER NAME

AND HIREDATE IF MANAGER WAS HIRED BEFORE EMPLOYEE .



The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 SELECT E1.ENAME,E1.HIREDATE,E2.ENAME,E2.HIREDATE
2 FROM EMP E1,EMP E2
3 WHERE E1.MGR=E2.EMPNO AND E2.HIREDATE<E1.HIREDATE;
```

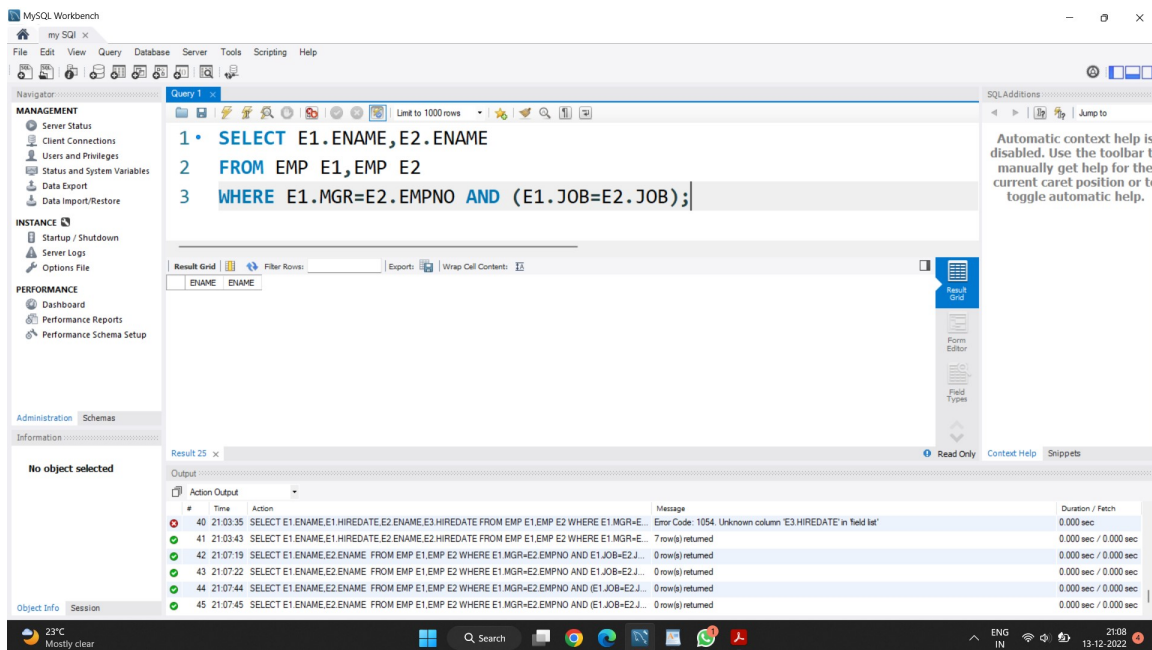
The results grid displays the following data:

ENAME	HIREDATE	ENAME	HIREDATE
FORD	1981-12-03	JONES	1981-04-02
SCOTT	1982-12-09	JONES	1981-04-02
JAMES	1981-12-03	BLAKE	1981-05-01
TURNER	1981-09-08	BLAKE	1981-05-01
MARTIN	1981-09-28	BLAKE	1981-05-01
MILLER	1982-01-23	CLARK	1981-06-09
ADAMS	1983-01-12	SCOTT	1982-12-09

The bottom panel shows the Action Output with the following messages:

#	Time	Action	Message	Duration / Fetch
36	21:02:44	SELECT E1.ENAME,E1.HIREDATE,E2.ENAME,E3.HIREDATE FROM EMP E1,EMP E2 WHERE E1.MGR=E...	Error Code: 1054. Unknown column 'E3.HIREDATE' in field list	0.000 sec
37	21:02:58	SELECT * FROM EMP	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
38	21:02:59	SELECT * FROM EMP	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
39	21:03:03	SELECT * FROM EMP LIMIT 0, 1000	14 row(s) returned	0.000 sec / 0.000 sec
40	21:03:35	SELECT E1.ENAME,E1.HIREDATE,E2.ENAME,E3.HIREDATE FROM EMP E1,EMP E2 WHERE E1.MGR=E...	Error Code: 1054. Unknown column 'E3.HIREDATE' in field list	0.000 sec
41	21:03:43	SELECT E1.ENAME,E1.HIREDATE,E2.ENAME,E2.HIREDATE FROM EMP E1,EMP E2 WHERE E1.MGR=E...	7 row(s) returned	0.000 sec / 0.000 sec

8.WAQTD EMP NAME AND MANAGER NAME IF BOTH ARE WORKING IN SAME JOB.



The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 SELECT E1.ENAME, E2.ENAME
2 FROM EMP E1,EMP E2
3 WHERE E1.MGR=E2.EMPNO AND (E1.JOB=E2.JOB);
```

The results grid displays the following data:

ENAME	ENAME
FORD	JONES
SCOTT	JONES
JAMES	BLAKE
TURNER	BLAKE
MARTIN	BLAKE
MILLER	CLARK
ADAMS	SCOTT

The bottom panel shows the Action Output with the following messages:

#	Time	Action	Message	Duration / Fetch
40	21:03:35	SELECT E1.ENAME,E1.HIREDATE,E2.ENAME,E3.HIREDATE FROM EMP E1,EMP E2 WHERE E1.MGR=E...	Error Code: 1054. Unknown column 'E3.HIREDATE' in field list	0.000 sec
41	21:03:43	SELECT E1.ENAME,E1.HIREDATE,E2.ENAME,E2.HIREDATE FROM EMP E1,EMP E2 WHERE E1.MGR=E...	7 row(s) returned	0.000 sec / 0.000 sec
42	21:07:19	SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR=E2.EMPNO AND E1.JOB=E2.J...	0 row(s) returned	0.000 sec / 0.000 sec
43	21:07:22	SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR=E2.EMPNO AND E1.JOB=E2.J...	0 row(s) returned	0.000 sec / 0.000 sec
44	21:07:44	SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR=E2.EMPNO AND (E1.JOB=E2.J...	0 row(s) returned	0.000 sec / 0.000 sec
45	21:07:45	SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR=E2.EMPNO AND (E1.JOB=E2.J...	0 row(s) returned	0.000 sec / 0.000 sec

10.WAQTD EMP NAME AND MANAGER NAME ALONG WITH THEIR ANNUAL SALARIES IF EMPLOYEE WORKS IN



DEPT 10 , 20 AND MANAGER'S SAL IS GREATER THAN EMPLOYEES SALARY .

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 • SELECT E1.ENAME,E2.ENAME ,E1.SAL*12,E2.SAL*12
2 FROM EMP E1,EMP E2
3 WHERE (E1.MGR=E2.EMPNO) AND E1.DEPTNO IN (10,20) AND E2.SAL>E1.SAL;
```

The Results grid shows the following data:

ENAME	ENAME	E1.SAL*12	E2.SAL*12
MILLER	CLARK	15600.00	29400.00
ADAMS	SCOTT	13200.00	36000.00
CLARK	KING	29400.00	60000.00
JONES	KING	35700.00	60000.00
SMITH	FORD	9600.00	36000.00

The Output tab shows the execution log with the following messages:

```
49 21:11:48 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.DEPTNO... Error Code: 1064. You have an error in your SQL syntax, check the manual that corresponds to your MySQL se... 0.000 sec
50 21:11:50 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.DEPTNO... Error Code: 1064. You have an error in your SQL syntax, check the manual that corresponds to your MySQL se... 0.000 sec
51 21:11:50 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.DEPTNO... Error Code: 1064. You have an error in your SQL syntax, check the manual that corresponds to your MySQL se... 0.000 sec
52 21:11:50 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.DEPTNO... Error Code: 1064. You have an error in your SQL syntax, check the manual that corresponds to your MySQL se... 0.000 sec
53 21:12:08 SELECT E1.ENAME,E2.ENAME ,E1.SAL*12,E2.SAL*12 FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.DEPTNO IN (10,20) AND E2.SAL>E1.SAL; 5 row(s) returned 0.000 sec / 0.000 sec
54 21:12:49 SELECT E1.ENAME,E2.ENAME ,E1.SAL*12,E2.SAL*12 FROM EMP E1,EMP E2 WHERE (E1.MGR=E2.EMPNO) AND E1.DEPTNO IN (10,20) AND E2.SAL>E1.SAL; 5 row(s) returned 0.000 sec / 0.000 sec
```

9.WAQTD EMP NAME AND MANAGER NAME IF MANAGER IS WORKING AS ACTUAL MANAGER .(**NOT SURE**)

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 • SELECT E1.ENAME,E2.ENAME
2 FROM EMP E1,EMP E2
3 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1.EMPNO;
```

The Results grid shows the following data:

ENAME	ENAME
MILLER	CLARK
ADAMS	SCOTT
CLARK	KING
JONES	KING
SMITH	FORD

The Output tab shows the execution log with the following messages:

```
65 21:10:22 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1.EMPNO; 13 row(s) returned 0.000 sec / 0.000 sec
66 21:19:10 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1.EMPNO; 13 row(s) returned 0.000 sec / 0.000 sec
67 21:19:15 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1.EMPNO; 13 row(s) returned 0.000 sec / 0.000 sec
68 21:19:26 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1.EMPNO; 13 row(s) returned 0.000 sec / 0.000 sec
69 21:19:54 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1.EMPNO; 13 row(s) returned 0.000 sec / 0.000 sec
70 21:20:17 SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1.EMPNO; 13 row(s) returned 0.000 sec / 0.000 sec
```

11.WAQTD EMPLOYEE'S NAME AND MANAGER'S

## DESIGNATION FOR ALL THE EMPLOYEES .

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 SELECT E1.ENAME , E2.JOB "MANAGER'S DESIGNATION"  
2 FROM EMP E1, EMP E2  
3 WHERE E1.MGR=E2.EMPNO;
```

The result grid displays the following data:

ENAME	MANAGER'S DESIGNATION
FORD	MANAGER
SCOTT	MANAGER
JAMES	MANAGER
TURNER	MANAGER
MARTIN	MANAGER
WARD	MANAGER
ALLEN	MANAGER
MILLER	MANAGER
ADAMS	ANALYST
CLARK	PRESIDENT
BLAKE	PRESIDENT
JONES	PRESIDENT
SMITH	ANALYST

The bottom panel shows the Action Output with the following messages:

#	Time	Action	Message	Duration / Fetch
69	21:19:54	SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.EMPNO=E1...	13 row(s) returned	0.000 sec / 0.000 sec
70	21:20:17	SELECT E1.ENAME,E2.ENAME FROM EMP E1,EMP E2 WHERE E1.MGR =E2.EMPNO AND E2.MGR=E1...	0 row(s) returned	0.000 sec / 0.000 sec
71	21:22:38	SELECT E1.ENAME ,E2.JOB FROM EMP E1, EMP E2 WHERE E1.MGR=E2.EMPNO LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
72	21:23:04	SELECT E1.ENAME ,E2.JOB"MANAGER'S DESIGNATION" FROM EMP E1, EMP E2 WHERE E1.MGR=E2...	13 row(s) returned	0.000 sec / 0.000 sec

## 12.WAQTD EMPLOYEE'S NAME AND MANAGER'S SALARY FOR ALL THE EMPLOYEES IF MANAGER'S SALARY ENDS WITH 50.

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 SELECT E1.ENAME,E2.SAL  
2 FROM EMP E1,EMP E2  
3 WHERE E1.MGR=E2.EMPNO AND E2.SAL LIKE '%50.00';
```

The result grid displays the following data:

ENAME	SAL
ALLEN	2850.00
WARD	2850.00
MARTIN	2850.00
TURNER	2850.00
JAMES	2850.00
MILLER	2450.00

The bottom panel shows the Action Output with the following messages:

#	Time	Action	Message	Duration / Fetch
75	21:24:55	SELECT E1.ENAME,E2.SAL FROM EMP E1,EMP E2 WHERE E1.MGR=E2.EMPNO AND E2.SAL LIKE "%50...	0 row(s) returned	0.000 sec / 0.000 sec
76	21:25:58	SELECT E1.ENAME,E2.SAL FROM EMP E1,EMP E2 WHERE E1.MGR=E2.EMPNO LIMIT 0, 1000	13 row(s) returned	0.016 sec / 0.000 sec
77	21:26:13	SELECT E1.ENAME,E2.SAL FROM EMP E1,EMP E2 WHERE E1.MGR=E2.EMPNO AND E2.SAL LIKE "%50...	6 row(s) returned	0.000 sec / 0.000 sec