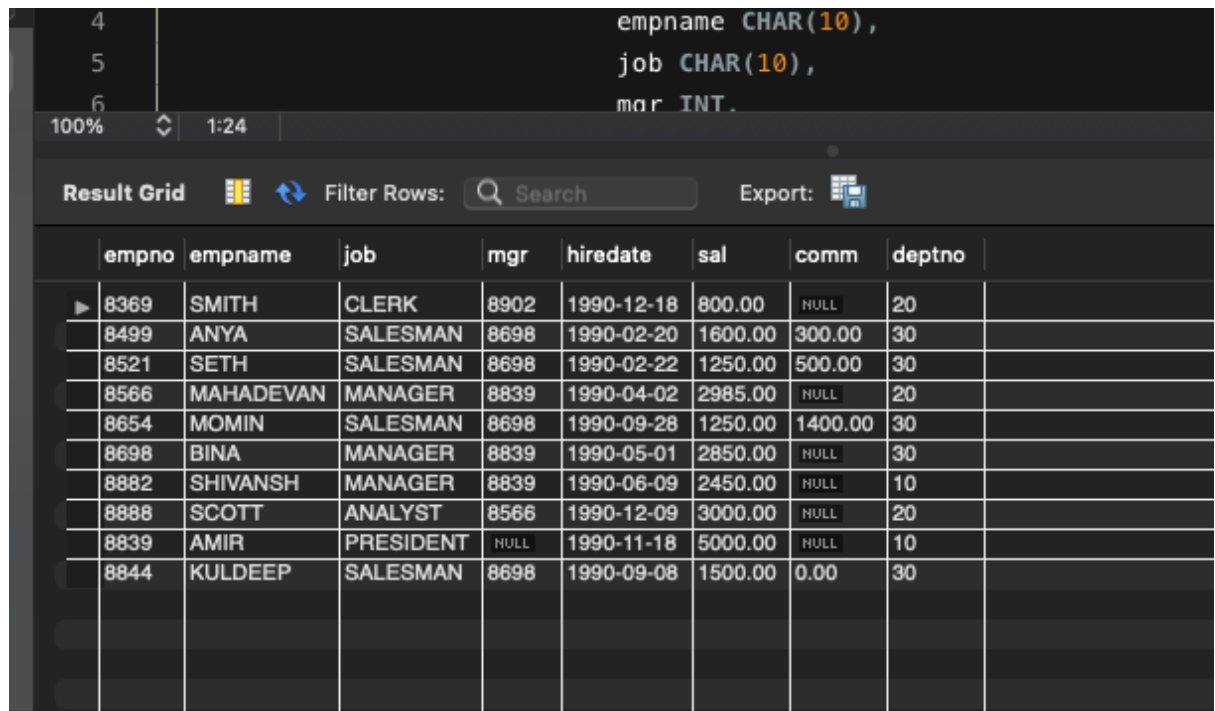


MYSQL TASK

TABLE CREATED



The screenshot shows a MySQL database interface. At the top, the table structure is defined: `empname CHAR(10),`, `job CHAR(10),`, and `mgr INT.`. Below this, the 'Result Grid' displays the data for the 'emp' table. The table has columns: empno, empname, job, mgr, hiredate, sal, comm, and deptno. The data is as follows:

empno	empname	job	mgr	hiredate	sal	comm	deptno
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20
8499	ANYA	SALESMAN	8698	1990-02-20	1600.00	300.00	30
8521	SETH	SALESMAN	8698	1990-02-22	1250.00	500.00	30
8566	MAHADEVAN	MANAGER	8839	1990-04-02	2985.00	NULL	20
8654	MOMIN	SALESMAN	8698	1990-09-28	1250.00	1400.00	30
8698	BINA	MANAGER	8839	1990-05-01	2850.00	NULL	30
8882	SHIVANSH	MANAGER	8839	1990-06-09	2450.00	NULL	10
8888	SCOTT	ANALYST	8566	1990-12-09	3000.00	NULL	20
8839	AMIR	PRESIDENT	NULL	1990-11-18	5000.00	NULL	10
8844	KULDEEP	SALESMAN	8698	1990-09-08	1500.00	0.00	30

command:

create database employee;//Crated a database

USE employee;

```
create table employee_data(empno INT,  
    empname CHAR(10),  
    job CHAR(10),  
    mgr INT,  
    hiredate DATE,  
    sal FLOAT(8,2),
```

```
comm FLOAT(8,2),  
deptno INT); //Table created
```

```
insert into employee_data VALUES(8369,'SMITH','CLERK',8902,'1990-12-  
18',800.00,NULL,20);  
insert into employee_data VALUES(8499,'ANYA','SALESMAN',8698,'1990-02-  
20',1600.00,300.00,30);  
insert into employee_data VALUES(8521,'SETH','SALESMAN',8698,'1990-02-  
22',1250.00,500.00,30);  
insert into employee_data VALUES(8566,'MAHADEVAN','MANAGER',8839,'1990-04-  
02',2985.00,NULL,20);  
insert into employee_data VALUES(8654,'MOMIN','SALESMAN',8698,'1990-09-  
28',1250.00,1400.00,30);  
insert into employee_data VALUES(8698,'BINA','MANAGER',8839,'1990-05-  
01',2850.00,NULL,30);  
insert into employee_data VALUES(8882,'SHIVANSH','MANAGER',8839,'1990-06-  
09',2450.00,NULL,10);  
insert into employee_data VALUES(8888,'SCOTT','ANALYST',8566,'1990-12-  
09',3000.00,NULL,20);  
insert into employee_data VALUES(8839,'AMIR','PRESIDENT',NULL,'1990-11-  
18',5000.00,NULL,10);  
insert into employee_data VALUES(8844,'KULDEEP','SALESMAN',8698,'1990-09-  
08',1500.00,0.00,30);
```

- The screenshot shows the SQL Developer interface. The top pane displays a successful SQL execution: `insert into employee_data VALUES(8844, 'KULDEEP', 'SALESMAN', 869`. The bottom pane shows the 'Result Grid' with the following data:

empname	sal
MAHADEVAN	2985.00
BINA	2850.00
SHIVANSH	2450.00
SCOTT	3000.00
AMIR	5000.00

The left sidebar shows the 'Session' tab selected, and the bottom status bar indicates the current table is 'employee_data 3'.

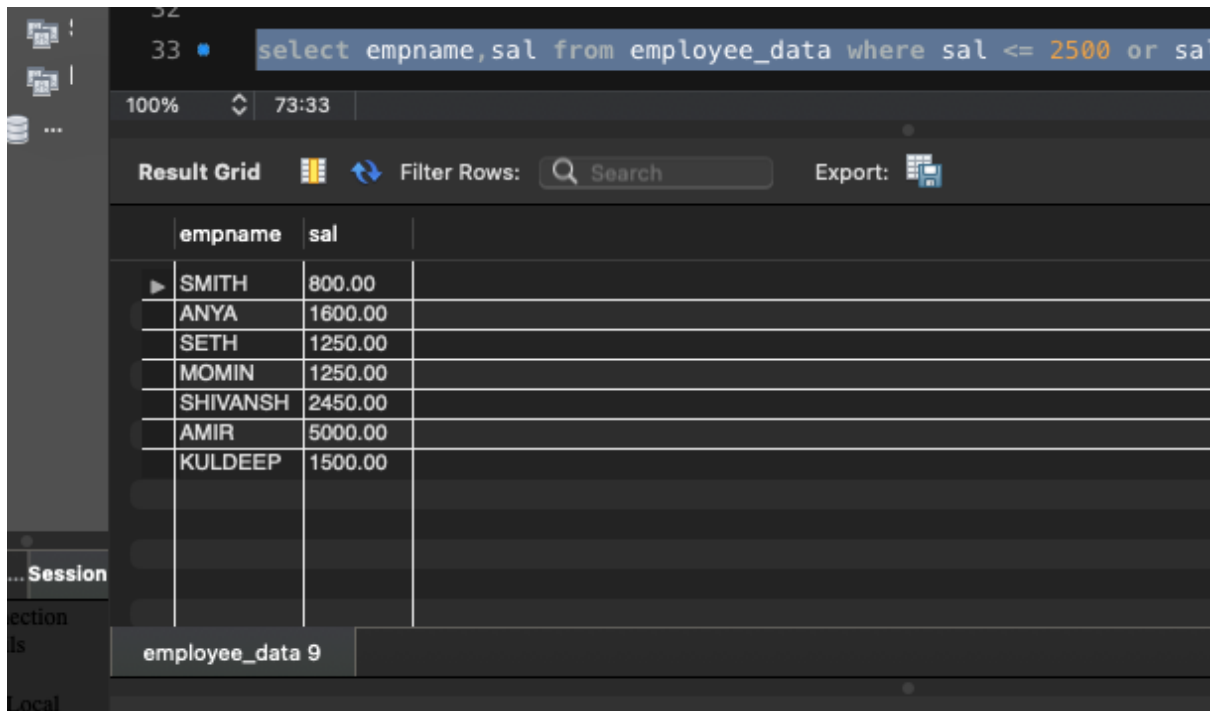
Command : select empname,sal from employee_data where sal >= 2200;

- The screenshot shows the SQL Developer interface. At the top, a query is entered in the SQL Editor: `select * from employee_data where comm = 0;`. Below the editor, the 'Result Grid' is displayed, showing the results of the query. The grid has columns for empno, empname, job, mgr, hiredate, sal, comm, and deptno. The first row of data shows empno 8844, empname KULDEEP, job SALESMAN, mgr 8698, hiredate 1990-09-08, sal 1500.00, comm 0.00, and deptno 30. The interface also shows a 'Filter Rows' search bar and an 'Export' button.

empno	empname	job	mgr	hiredate	sal	comm	deptno
8844	KULDEEP	SALESMAN	8698	1990-09-08	1500.00	0.00	30

COMMAND : select * from employee_data where comm = 0;

1. C. To display salary range not between 2500 to 4000?



The screenshot shows a SQL IDE interface. At the top, a query is entered in a text editor: `select empname,sal from employee_data where sal <= 2500 or sal >= 4000`. Below the editor, the 'Result Grid' displays the query results. The grid has two columns: 'empname' and 'sal'. The results are as follows:

empname	sal
SMITH	800.00
ANYA	1600.00
SETH	1250.00
MOMIN	1250.00
SHIVANSH	2450.00
AMIR	5000.00
KULDEEP	1500.00

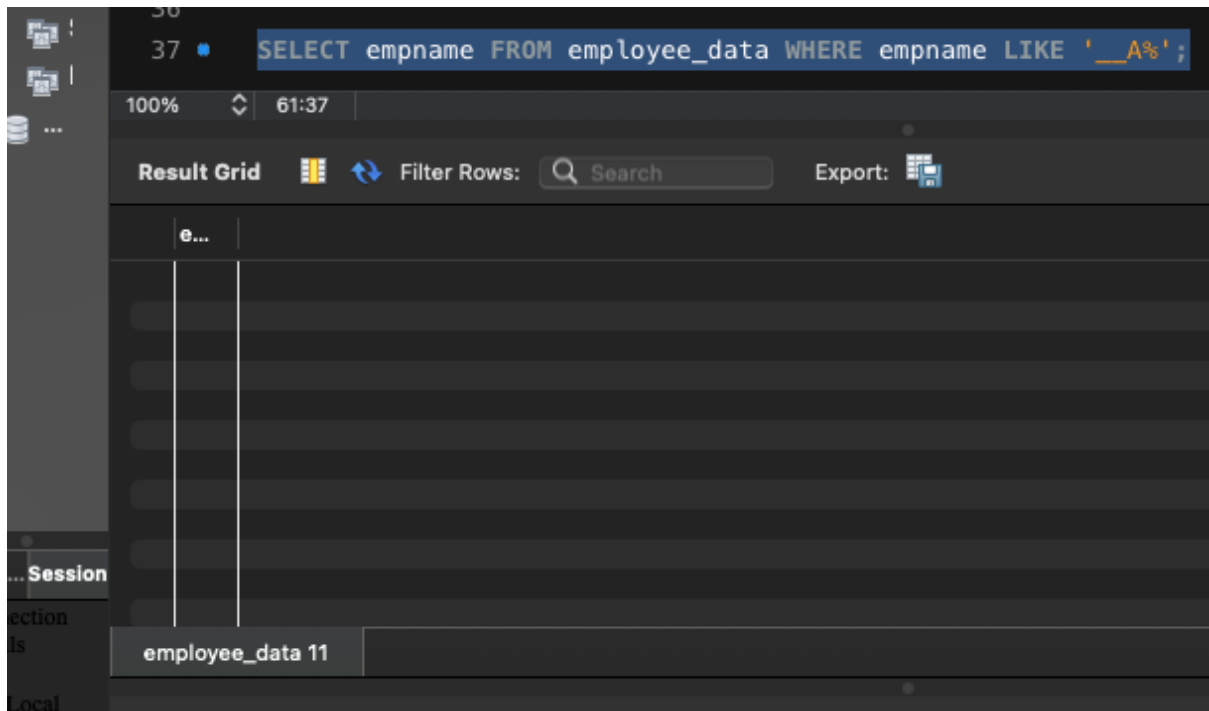
The interface also shows a 'Filter Rows' search bar and an 'Export' button. The bottom of the screen shows a 'Session' tab and a 'Local' section.

Command: select empname,sal from employee_data where sal <= 2500 or sal >=4000 ;

- [illegible]

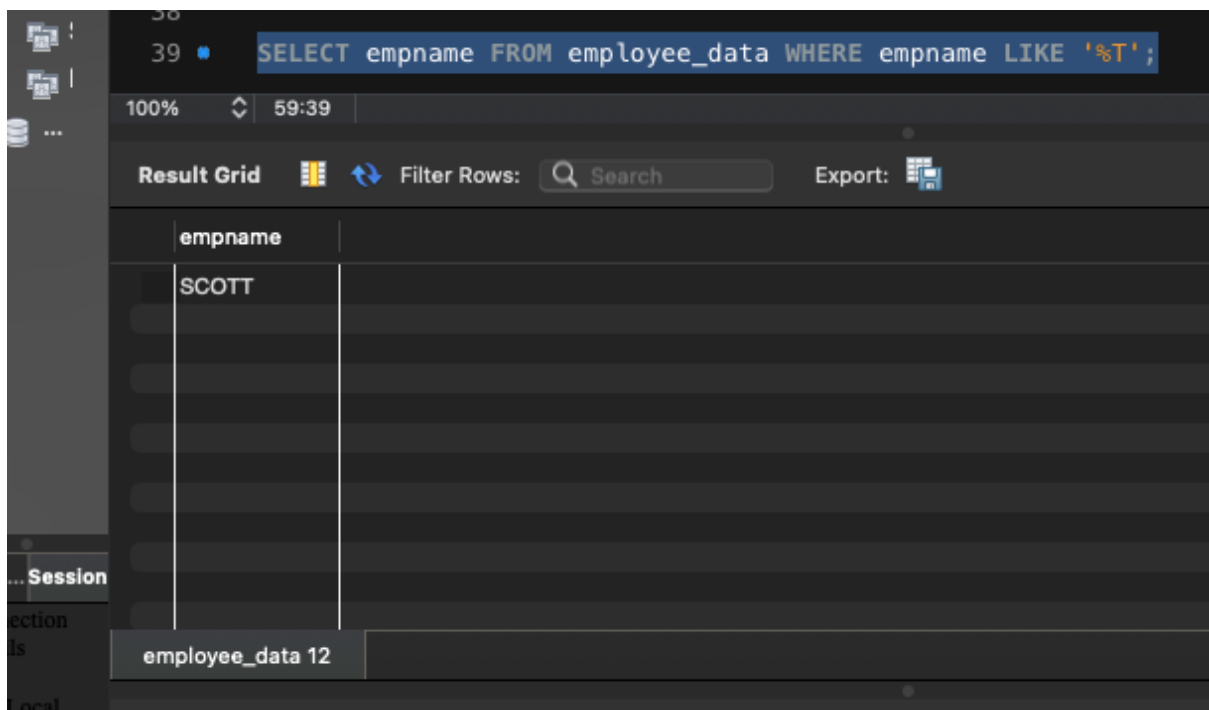
```
Command : select empname,job,sal from employee_data where job != 'MANAGER';
```

1. E. To display name of the employee who's name has 3rd alphabet as 'A'?



Command : `SELECT empname FROM employee_data WHERE empname LIKE '___A%';`

1. F. To display employee name ends with 'T'?



Command: `SELECT empname FROM employee_data WHERE empname LIKE '%T';`

2. JDBC – To insert a rows to a table

Code:

```
package jdbc_demo;

import java.sql.*;

public class test_connection {
    public static void main(String[] args)
    {
        System.out.println("java.sql package
is accessible!");
        String jdbcUrl =
"jdbc:mysql://localhost:3306/employee";
        String username = "root";
        String password = "Sudhir2510@";

        String sql = "INSERT INTO
employeetable VALUES (?, ?, ?, ?)";//set
command

        try {
```

```
Connection conn =  
DriverManager.getConnection(jdbcUrl,  
username, password);//to establish a  
connection to server
```

```
PreparedStatement stmt =  
conn.prepareStatement(sql);//to execute  
the query
```

```
// stmt.setInt(1, 101);  
// stmt.setString(2, "Jenny");  
// stmt.setInt(3, 25);  
// stmt.setInt(4,10000);
```

```
// stmt.setInt(1, 102);  
// stmt.setString(2, "Jacky");  
// stmt.setInt(3, 30);  
// stmt.setInt(4,20000);
```

```
// stmt.setInt(1, 103);
// stmt.setString(2, "Joe");
// stmt.setInt(3, 20);
// stmt.setInt(4,40000);

// stmt.setInt(1, 104);
// stmt.setString(2, "John");
// stmt.setInt(3, 40);
// stmt.setInt(4,80000);

stmt.setInt(1, 105);
stmt.setString(2, "Shameer");
stmt.setInt(3, 25);
stmt.setInt(4,90000);

int rowsInserted =
stmt.executeUpdate();
    if (rowsInserted > 0) {
        System.out.println("A new
row was inserted successfully!");
    }
```

```

        stmt.close();
        conn.close();

    } catch (SQLException e) {
        System.out.println("Connection
failed!");
        e.printStackTrace();
    }
}
}
}

```

Output:

42

43

44

45

empname CHAR(10),

empage INT,

esalary INT);

100%

50:47

Result Grid

Filter Rows:

Search

Export:

	empcode	empname	empage	esalary
▶	101	Jenny	25	10000
	102	Jacky	30	20000
	103	Joe	20	40000
	104	John	40	80000
	105	Shameer	25	90000

employeetable 18

Action Output

Session

Instance 3306

Host

localhost