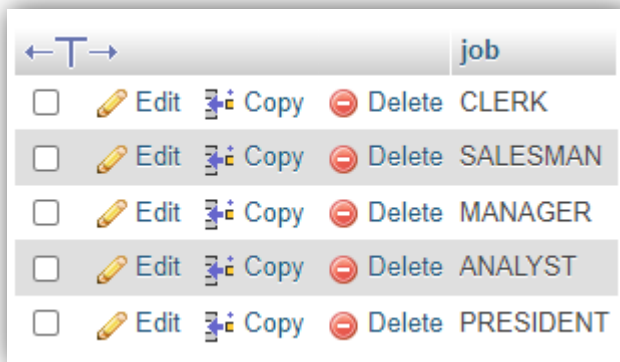


MODULE -3 Java- RDBMS & Database

Programming With JDBC

Q1. Select unique job from EMP table.

Ans: SELECT DISTINCT job FROM employee_data;



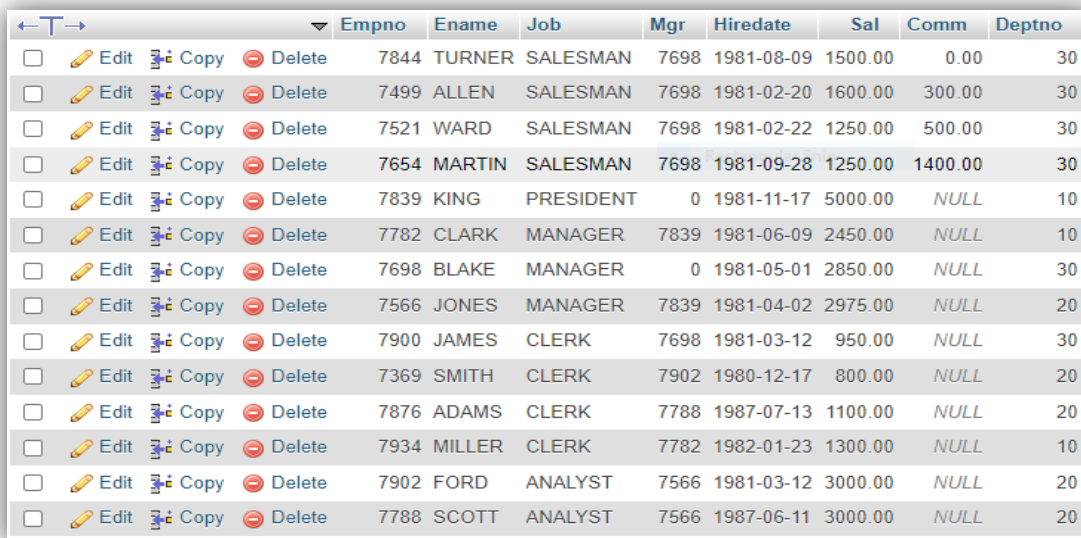
A screenshot of a database query result window. The title bar shows a SQL icon and the text 'job'. The window contains a list of five job titles: CLERK, SALESMAN, MANAGER, ANALYST, and PRESIDENT. Each title is preceded by a checkbox, an 'Edit' icon (pencil), a 'Copy' icon (two overlapping sheets), and a 'Delete' icon (minus sign in a circle).

	job
<input type="checkbox"/> Edit Copy Delete	CLERK
<input type="checkbox"/> Edit Copy Delete	SALESMAN
<input type="checkbox"/> Edit Copy Delete	MANAGER
<input type="checkbox"/> Edit Copy Delete	ANALYST
<input type="checkbox"/> Edit Copy Delete	PRESIDENT

Q2. List the details of the emps in asc order of the Deptnos and desc of Jobs?











































Ans:

1. SELECT * FROM employee_data ORDER BY Deptno ASC
2. SELECT * FROM employee_data ORDER BY Job DESC



A screenshot of a database query result window showing a list of employees. The window has a title bar with a SQL icon and a dropdown menu. The table has columns: Empno, Ename, Job, Mgr, Hiredate, Sal, Comm, and Deptno. The data is sorted by Deptno in ascending order and by Job in descending order. Each row has a checkbox, an 'Edit' icon, a 'Copy' icon, and a 'Delete' icon.

	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
<input type="checkbox"/> Edit Copy Delete	7844	TURNER	SALESMAN	7698	1981-08-09	1500.00	0.00	30
<input type="checkbox"/> Edit Copy Delete	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
<input type="checkbox"/> Edit Copy Delete	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
<input type="checkbox"/> Edit Copy Delete	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
<input type="checkbox"/> Edit Copy Delete	7839	KING	PRESIDENT	0	1981-11-17	5000.00	NULL	10
<input type="checkbox"/> Edit Copy Delete	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
<input type="checkbox"/> Edit Copy Delete	7698	BLAKE	MANAGER	0	1981-05-01	2850.00	NULL	30
<input type="checkbox"/> Edit Copy Delete	7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
<input type="checkbox"/> Edit Copy Delete	7900	JAMES	CLERK	7698	1981-03-12	950.00	NULL	30
<input type="checkbox"/> Edit Copy Delete	7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
<input type="checkbox"/> Edit Copy Delete	7876	ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20
<input type="checkbox"/> Edit Copy Delete	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
<input type="checkbox"/> Edit Copy Delete	7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20
<input type="checkbox"/> Edit Copy Delete	7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20

← T →			▼	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno	▲ ↑
<input type="checkbox"/>	 Edit	 Copy	 Delete	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7839	KING	PRESIDENT	0	1981-11-17	5000.00	NULL	10	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7876	ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7698	BLAKE	MANAGER	0	1981-05-01	2850.00	NULL	30	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7844	TURNER	SALESMAN	7698	1981-08-09	1500.00	0.00	30	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7900	JAMES	CLERK	7698	1981-03-12	950.00	NULL	30	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30	

Q3. Display all the unique job groups in the descending order?

Ans: SELECT DISTINCT job FROM employee_data ORDER BY job DESC;

				job
<input type="checkbox"/>				SALESMAN
<input type="checkbox"/>				PRESIDENT
<input type="checkbox"/>				MANAGER
<input type="checkbox"/>				CLERK
<input type="checkbox"/>				ANALYST











































Q4. List the emps who joined before 1981.

Ans: SELECT * FROM employee_data WHERE hiredate < '1981-01-01'

				Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
<input type="checkbox"/>				7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20

Q5. List the Empno, Ename, Sal, Daily sal of all emps in the asc order of Annsal.

Ans: SELECT Empno, Ename, Sal, (Sal / 30) AS Daily_Sal, (Sal * 12) AS Annsal
FROM employee_data ORDER BY Annsal ASC

<div><div>← T →</div><div>▼</div></div>				Empno	Ename	Sal	Daily_Sal	Annsal	1
<input type="checkbox"/>	 Edit	 Copy	 Delete	7369	SMITH	800.00	26.666667	9600.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7900	JAMES	950.00	31.666667	11400.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7876	ADAMS	1100.00	36.666667	13200.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7521	WARD	1250.00	41.666667	15000.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7654	MARTIN	1250.00	41.666667	15000.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7934	MILLER	1300.00	43.333333	15600.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7844	TURNER	1500.00	50.000000	18000.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7499	ALLEN	1600.00	53.333333	19200.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7782	CLARK	2450.00	81.666667	29400.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7698	BLAKE	2850.00	95.000000	34200.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7566	JONES	2975.00	99.166667	35700.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7902	FORD	3000.00	100.000000	36000.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7788	SCOTT	3000.00	100.000000	36000.00	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7839	KING	5000.00	166.666667	60000.00	

Q6. List the Empno, Ename, Sal, Exp of all emps working for Mgr 7369.

Ans: SELECT Empno, Ename, Sal, (YEAR(CURRENT_DATE) - YEAR(hiredate)) AS Exp FROM
employee_data WHERE Mgr = 7698;

				Empno	Ename	Sal	Exp
<input type="checkbox"/>		Edit		Copy		Delete	7499 ALLEN 1600.00 43
<input type="checkbox"/>		Edit		Copy		Delete	7521 WARD 1250.00 43
<input type="checkbox"/>		Edit		Copy		Delete	7654 MARTIN 1250.00 43
<input type="checkbox"/>		Edit		Copy		Delete	7844 TURNER 1500.00 43
<input type="checkbox"/>		Edit		Copy		Delete	7900 JAMES 950.00 43













Q7. Display all the details of the emps who's Comm. Is more than their Sal?

Ans : SELECT * FROM employee_data WHERE Comm > Sal.

<div>← T →</div>			Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno	
<div><div><div><div></div></div></div><div><div><div></div></div></div></div>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
















Q8. List the emps who are either 'CLERK' or 'ANALYST' in the Desc order

Ans: SELECT * FROM employee_data WHERE job = 'CLERK' OR 'ANALYST'

<div>←T→</div>				Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
<input type="checkbox"/>		Edit	 Copy	 Delete	7369 SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
<input type="checkbox"/>		Edit	 Copy	 Delete	7876 ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20
<input type="checkbox"/>		Edit	 Copy	 Delete	7900 JAMES	CLERK	7698	1981-03-12	950.00	NULL	30
<input type="checkbox"/>		Edit	 Copy	 Delete	7934 MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10







Q9. List the emps Who Annual sal ranging from 22000 and 45000.

Ans: SELECT Empno, Ename , Sal FROM employee_data WHERE (Sal * 12) BETWEEN 22000 AND 45000.

← T →			empno	ename	job	mgr	hiredate	sal	comm	deptno	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	7698	BLAKE	MANAGER	0	1981-05-01	2850.00	NULL	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
<input type="checkbox"/>	 Edit	 Copy	 Delete	7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20

Q10. List the Enames those are starting with 'S' and with five characters.

Ans : SELECT Ename, LENGTH(Ename) AS name_length FROM employee_data WHERE Ename LIKE 'S%'

					Ename	name_length
<input type="checkbox"/>		Edit		Copy		Delete
<input type="checkbox"/>		Edit		Copy		Delete
					SMITH	6
					SCOTT	5

Q11. List the emps whose Empno not starting with digit 78.

Ans: SELECT *FROM employee_data WHERE Empno NOT LIKE '78%'

← T →						▼ Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno	
<input type="checkbox"/>		Edit		Copy		Delete	7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
<input type="checkbox"/>		Edit		Copy		Delete	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
<input type="checkbox"/>		Edit		Copy		Delete	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
<input type="checkbox"/>		Edit		Copy		Delete	7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
<input type="checkbox"/>		Edit		Copy		Delete	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
<input type="checkbox"/>		Edit		Copy		Delete	7698	BLAKE	MANAGER	0	1981-05-01	2850.00	NULL	30
<input type="checkbox"/>		Edit		Copy		Delete	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
<input type="checkbox"/>		Edit		Copy		Delete	7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
<input type="checkbox"/>		Edit		Copy		Delete	7900	JAMES	CLERK	7698	1981-03-12	950.00	NULL	30
<input type="checkbox"/>		Edit		Copy		Delete	7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20
<input type="checkbox"/>		Edit		Copy		Delete	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

Q12. List all the Clerks of Deptno 20.

Ans: SELECT * FROM Employees WHERE Job = 'Clerk' AND Deptno = 20;

← T →					Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno		
<input type="checkbox"/>		Edit		Copy		Delete	7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
<input type="checkbox"/>		Edit		Copy		Delete	7876	ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20

Q13. List the Emps who are senior to their own MGRS.

Ans: SELECT e1.Empno AS EmployeeEmpno,

e1.Ename AS EmployeeName,

e1.Job AS EmployeeJob,

e1.MGR AS ManagerEmpno,

e1.HireDate AS EmployeeHireDate,

e1.Deptno AS EmployeeDeptno,

e2.Ename AS ManagerName,

e2.HireDate AS ManagerHireDate

FROM employee_data e1

JOIN employee_data e2 ON e1.MGR = e2.Empno

WHERE e1.HireDate < e2.HireDate;

EmployeeEmpno	EmployeeName	EmployeeJob	ManagerEmpno	EmployeeHireDate	EmployeeDeptno	ManagerName	ManagerHireDate
7369	SMITH	CLERK	7902	1980-12-17	20	FORD	1981-03-12
7499	ALLEN	SALESMAN	7698	1981-02-20	30	BLAKE	1981-05-01
7521	WARD	SALESMAN	7698	1981-02-22	30	BLAKE	1981-05-01
7566	JONES	MANAGER	7839	1981-04-02	20	KING	1981-11-17
7782	CLARK	MANAGER	7839	1981-06-09	10	KING	1981-11-17
7900	JAMES	CLERK	7698	1981-03-12	30	BLAKE	1981-05-01
7902	FORD	ANALYST	7566	1981-03-12	20	JONES	1981-04-02

14. List the Emps of Deptno 20 whose Jobs are same as Deptno 10

Ans: SELECT e1.Empno, e1.Ename, e1.Job, e1.Deptno

FROM employee_data e1

WHERE e1.Deptno = 20

AND e1.Job IN (

SELECT DISTINCT e2.Job

FROM employee_data e2

WHERE e2.Deptno = 10);

				Empno	Ename	Job	Deptno
<input type="checkbox"/>		Edit		Copy		Delete	7369 SMITH CLERK 20
<input type="checkbox"/>		Edit		Copy		Delete	7566 JONES MANAGER 20
<input type="checkbox"/>		Edit		Copy		Delete	7876 ADAMS CLERK 20

Q15. List the Emps whose Sal is same as FORD or SMITH in desc order of Sal.

Ans: SELECT Empno, Ename, Job, Sal

FROM employee_data

WHERE Sal IN (

SELECT Sal FROM employee_data WHERE Ename IN ('FORD', 'SMITH'))

ORDER BY Sal DESC;

					Empno	Ename	Job	Sal	▼ 1
<input type="checkbox"/>		Edit		Copy		Delete	7788 SCOTT ANALYST 3000.00		
<input type="checkbox"/>		Edit		Copy		Delete	7902 FORD ANALYST 3000.00		
<input type="checkbox"/>		Edit		Copy		Delete	7369 SMITH CLERK 800.00		

16. List the emps whose jobs same as SMITH or ALLEN

Ans: SELECT * FROM employee_data

WHERE job IN (

SELECT job FROM employee_data WHERE ename = 'SMITH'

UNION

SELECT job FROM employee_data WHERE ename = 'ALLEN');

	▼	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
Delete		7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
Delete		7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
Delete		7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
Delete		7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
Delete		7844	TURNER	SALESMAN	7698	1981-08-09	1500.00	0.00	30
Delete		7876	ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20
Delete		7900	JAMES	CLERK	7698	1981-03-12	950.00	NULL	30
Delete		7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

17. Any jobs of deptno 10 those that are not found in deptno 20.

Ans: SELECT DISTINCT job, Ename

FROM employee_data

WHERE deptno = 10

AND job NOT IN (





SELECT job FROM employee_data WHERE deptno = 20);

← T →	▼	job	Ename
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete		PRESIDENT	KING

18. Find the highest sal of EMP table.

Ans: SELECT MAX(sal) AS highest_salary , Ename


FROM employee_data;

		highest_salary	Ename
	 Edit  Copy  Delete	5000.00	SMITH

19. Find details of highest paid employee.

SELECT * FROM employee_data

WHERE sal = (SELECT MAX(sal) FROM employee_data);

	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
	7839	KING	PRESIDENT	0	1981-11-17	5000.00	NULL	10




















20. Find the totalsal given to the MGR.

Ans: SELECT SUM(sal) AS total_sal FROM employee_data WHERE job = 'Manager';

total_sal
8275.00






















21. List the emps whose names contains 'A'.

Ans: SELECT * FROM employee_data WHERE ename LIKE '%A%';

<div>← T →</div>				Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
<input type="checkbox"/>	 Edit	 Copy	 Delete	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	7698	BLAKE	MANAGER	0	1981-05-01	2850.00	NULL	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
<input type="checkbox"/>	 Edit	 Copy	 Delete	7876	ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	7900	JAMES	CLERK	7698	1981-03-12	950.00	NULL	30













22. Find all the emps who earn the minimum Salary for each job wise in ascending order.

Ans: `SELECT * FROM employee_data e1 WHERE sal = (SELECT MIN(sal) FROM employee_data e2 WHERE e1.job = e2.job) ORDER BY job ASC;`

			Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno	
<input type="checkbox"/>	 Edit	 Copy	 Delete	7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
<input type="checkbox"/>	 Edit	 Copy	 Delete	7839	KING	PRESIDENT	0	1981-11-17	5000.00	NULL	10
<input type="checkbox"/>	 Edit	 Copy	 Delete	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30

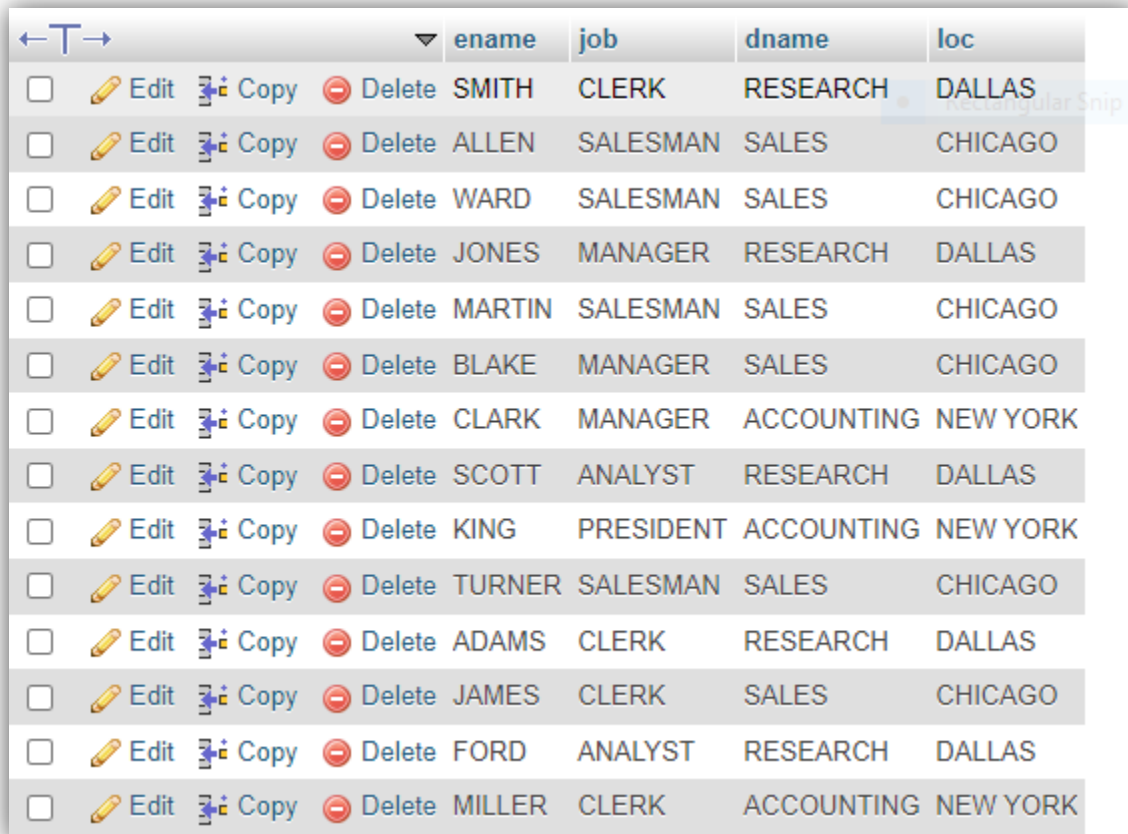
23. List the emps whose sal greater than Blake's sal

Ans: `SELECT * FROM employee_data WHERE sal > (SELECT sal FROM employee_data WHERE ename = 'Blake');`

← T →														
				Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno			
<input type="checkbox"/>		Edit		Copy		Delete	7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
<input type="checkbox"/>		Edit		Copy		Delete	7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
<input type="checkbox"/>		Edit		Copy		Delete	7839	KING	PRESIDENT	0	1981-11-17	5000.00	NULL	10
<input type="checkbox"/>		Edit		Copy		Delete	7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20

24. Create view v1 to select ename, job, dname, loc whose deptno are same.

Ans: CREATE VIEW v2 AS SELECT e.ename, e.job, d.dname, d.loc FROM employee_data e
JOIN Dept d ON e.deptno = d.deptno;



	ename	job	dname	loc
<input type="checkbox"/> Edit Copy Delete	SMITH	CLERK	RESEARCH	DALLAS
<input type="checkbox"/> Edit Copy Delete	ALLEN	SALESMAN	SALES	CHICAGO
<input type="checkbox"/> Edit Copy Delete	WARD	SALESMAN	SALES	CHICAGO
<input type="checkbox"/> Edit Copy Delete	JONES	MANAGER	RESEARCH	DALLAS
<input type="checkbox"/> Edit Copy Delete	MARTIN	SALESMAN	SALES	CHICAGO
<input type="checkbox"/> Edit Copy Delete	BLAKE	MANAGER	SALES	CHICAGO
<input type="checkbox"/> Edit Copy Delete	CLARK	MANAGER	ACCOUNTING	NEW YORK
<input type="checkbox"/> Edit Copy Delete	SCOTT	ANALYST	RESEARCH	DALLAS
<input type="checkbox"/> Edit Copy Delete	KING	PRESIDENT	ACCOUNTING	NEW YORK
<input type="checkbox"/> Edit Copy Delete	TURNER	SALESMAN	SALES	CHICAGO
<input type="checkbox"/> Edit Copy Delete	ADAMS	CLERK	RESEARCH	DALLAS
<input type="checkbox"/> Edit Copy Delete	JAMES	CLERK	SALES	CHICAGO
<input type="checkbox"/> Edit Copy Delete	FORD	ANALYST	RESEARCH	DALLAS
<input type="checkbox"/> Edit Copy Delete	MILLER	CLERK	ACCOUNTING	NEW YORK

25. Create a procedure with dno as input parameter to fetch ename and dname.

Ans: DELIMITER \$\$

```
CREATE PROCEDURE fetch_emp_details(IN dno INT)
```

```
BEGIN
```

```
    SELECT e.ename, d.dname
```

```
    FROM employee_data e
```

```
    JOIN dept_table d ON e.deptno = d.deptno
```

```

WHERE e.deptno = dno;

END $$

DELIMITER ;

```

26.Add column Pin with bigint data type in table student.

Ans: ALTER TABLE student_data ADD Pin BIGINT;

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	Rno	int(2)			No	0			Change Drop More
<input type="checkbox"/>	2	Sname	varchar(14)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	3	City	varchar(20)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4	State	varchar(20)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	5	Pin	bigint(20)			Yes	NULL			Change Drop More

27.Modify the student table to change the sname length from 14 to 40. Create trigger to insert data in emp_log table whenever any update of sal in EMP table. You can set action as 'New Salary'.

Ans: ALTER TABLE student_table MODIFY sname VARCHAR(40);

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	Rno	int(2)			No	0			Change Drop More
<input type="checkbox"/>	2	sname	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	3	City	varchar(20)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4	State	varchar(20)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	5	Pin	bigint(20)			Yes	NULL			Change Drop More