

Assignment (RDBMS)

i. Select unique job from EMP table.

Answer : `SELECT DISTINCT job FROM emp_table_data;`

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

ii. List the details of the emps in asc order of the Dptnos and desc of Jobs?

Answer : `SELECT * FROM emp_table_data ORDER BY deptno ASC, job DESC;`

| ← T → | | ID | Empno | ename | job | 2 | mgr | hiredate | sal | comm | deptno | 1 |
|--------------------------|--------------------|----|-------|--------|-----------|------|-----|------------|------|------|--------|----|
| <input type="checkbox"/> | Edit Copy Delete | 9 | 7839 | KING | PRESIDENT | | 0 | 1981-11-17 | 5000 | 0 | | 10 |
| <input type="checkbox"/> | Edit Copy Delete | 7 | 7782 | CLARK | MANAGER | 7839 | | 1981-06-09 | 2450 | 0 | | 10 |
| <input type="checkbox"/> | Edit Copy Delete | 14 | 7934 | MILLER | CLERK | 7782 | | 1982-01-23 | 1300 | 0 | | 10 |
| <input type="checkbox"/> | Edit Copy Delete | 4 | 7566 | JONES | MANAGER | 7839 | | 1981-04-02 | 2975 | 0 | | 20 |
| <input type="checkbox"/> | Edit Copy Delete | 1 | 7369 | SMITH | CLERK | 7902 | | 1980-12-17 | 800 | 0 | | 20 |
| <input type="checkbox"/> | Edit Copy Delete | 11 | 7876 | ADAMS | CLERK | 7788 | | 1987-07-13 | 1100 | 0 | | 20 |
| <input type="checkbox"/> | Edit Copy Delete | 8 | 7788 | SCOTT | ANALYST | 7566 | | 1987-06-11 | 3000 | 0 | | 20 |
| <input type="checkbox"/> | Edit Copy Delete | 13 | 7902 | FORD | ANALYST | 7566 | | 1981-03-12 | 3000 | 0 | | 20 |
| <input type="checkbox"/> | Edit Copy Delete | 2 | 7499 | ALLEN | SALESMAN | 7698 | | 1981-02-20 | 1600 | 300 | | 30 |
| <input type="checkbox"/> | Edit Copy Delete | 3 | 7521 | WARD | SALESMAN | 7698 | | 1981-02-22 | 1250 | 500 | | 30 |
| <input type="checkbox"/> | Edit Copy Delete | 5 | 7654 | MARTIN | SALESMAN | 7698 | | 1981-09-28 | 1250 | 1400 | | 30 |
| <input type="checkbox"/> | Edit Copy Delete | 10 | 7844 | TURNER | SALESMAN | 7698 | | 1981-08-09 | 1500 | 0 | | 30 |
| <input type="checkbox"/> | Edit Copy Delete | 6 | 7698 | BLAKE | MANAGER | 7839 | | 1981-05-01 | 2850 | 0 | | 30 |
| <input type="checkbox"/> | Edit Copy Delete | 12 | 7900 | JAMES | CLERK | 7698 | | 1981-03-12 | 950 | 0 | | 30 |

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

Answer : `SELECT DISTINCT job FROM emp_table_data ORDER BY job DESC;`

| | | | | job ▾ 1 |
|--------------------------|--|--|--|-----------|
| <input type="checkbox"/> | | | | SALESMAN |
| <input type="checkbox"/> | | | | PRESIDENT |
| <input type="checkbox"/> | | | | MANAGER |
| <input type="checkbox"/> | | | | CLERK |
| <input type="checkbox"/> | | | | ANALYST |

iv. List the emps who joined before 1981.

Answer : SELECT * FROM emp_table_data WHERE hiredate < '1981-01-01';

| | | | | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|--------------------------|--|--|--|----|-------|-------|-------|------|------------|-----|------|--------|
| <input type="checkbox"/> | | | | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |

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

Answer : SELECT Empno, ename, sal, (sal/30) AS Dailysal FROM emp_table_data ORDER by (sal*12) asc;

| | | | | Empno | ename | sal | Dailysal |
|--------------------------|--|--|--|-------|--------|------|----------|
| <input type="checkbox"/> | | | | 7369 | SMITH | 800 | 26.6667 |
| <input type="checkbox"/> | | | | 7900 | JAMES | 950 | 31.6667 |
| <input type="checkbox"/> | | | | 7876 | ADAMS | 1100 | 36.6667 |
| <input type="checkbox"/> | | | | 7521 | WARD | 1250 | 41.6667 |
| <input type="checkbox"/> | | | | 7654 | MARTIN | 1250 | 41.6667 |
| <input type="checkbox"/> | | | | 7934 | MILLER | 1300 | 43.3333 |
| <input type="checkbox"/> | | | | 7844 | TURNER | 1500 | 50.0000 |
| <input type="checkbox"/> | | | | 7499 | ALLEN | 1600 | 53.3333 |
| <input type="checkbox"/> | | | | 7782 | CLARK | 2450 | 81.6667 |
| <input type="checkbox"/> | | | | 7698 | BLAKE | 2850 | 95.0000 |
| <input type="checkbox"/> | | | | 7566 | JONES | 2975 | 99.1667 |
| <input type="checkbox"/> | | | | 7788 | SCOTT | 3000 | 100.0000 |
| <input type="checkbox"/> | | | | 7902 | FORD | 3000 | 100.0000 |
| <input type="checkbox"/> | | | | 7839 | KING | 5000 | 166.6667 |

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

Answer : `SELECT Empno, ename, sal, (YEAR(CURDATE()) - YEAR(hiredate)) AS experience FROM emp_table_data WHERE mgr = 7369;`

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
SELECT Empno, ename, sal, (YEAR(CURDATE()) - YEAR(hiredate)) AS experience FROM emp_table_data WHERE mgr = 7369;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

| Empno | ename | sal | experience |
|-------|-------|-----|------------|
|-------|-------|-----|------------|

Query results operations

[Create view](#)

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

Answer : `SELECT * FROM emp_table_data WHERE COMM > sal;`

| | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|--------|----------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 5 | 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

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

Answer : `SELECT * FROM emp_table_data WHERE JOB IN('clerk','analyst')ORDER BY ename DESC;`

| | ID | Empno | ename | 1 | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|--------|---|---------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 1 | 7369 | SMITH | | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 8 | 7788 | SCOTT | | ANALYST | 7566 | 1987-06-11 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 14 | 7934 | MILLER | | CLERK | 7782 | 1982-01-23 | 1300 | 0 | 10 |
| <input type="checkbox"/> Edit Copy Delete | 12 | 7900 | JAMES | | CLERK | 7698 | 1981-03-12 | 950 | 0 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 13 | 7902 | FORD | | ANALYST | 7566 | 1981-03-12 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 11 | 7876 | ADAMS | | CLERK | 7788 | 1987-07-13 | 1100 | 0 | 20 |

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

Answer : SELECT * FROM emp_table_data WHERE (sal * 12) BETWEEN 22000 and 45000;

| | ID | Empno | ename | 1 | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|--------|---|---------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 1 | 7369 | SMITH | | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 8 | 7788 | SCOTT | | ANALYST | 7566 | 1987-06-11 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 14 | 7934 | MILLER | | CLERK | 7782 | 1982-01-23 | 1300 | 0 | 10 |
| <input type="checkbox"/> Edit Copy Delete | 12 | 7900 | JAMES | | CLERK | 7698 | 1981-03-12 | 950 | 0 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 13 | 7902 | FORD | | ANALYST | 7566 | 1981-03-12 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 11 | 7876 | ADAMS | | CLERK | 7788 | 1987-07-13 | 1100 | 0 | 20 |

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

Answer : SELECT * FROM `emp_table_data` WHERE ename LIKE 'S_____';

| | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|-------|---------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 8 | 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000 | 0 | 20 |







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

Answer : SELECT * FROM `emp_table_data` WHERE Empno NOT LIKE '78%';

| | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|--------|----------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 2 | 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 3 | 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 4 | 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 5 | 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 6 | 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | 0 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 7 | 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | 0 | 10 |
| <input type="checkbox"/> Edit Copy Delete | 8 | 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 12 | 7900 | JAMES | CLERK | 7698 | 1981-03-12 | 950 | 0 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 13 | 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 14 | 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | 0 | 10 |

xii. List all the Clerks of Deptno 20.

Answer : SELECT * FROM `emp_table_data` WHERE job = 'clerk' AND deptno = 20;

| <div>← T →</div> | | | | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|--------------------------|--|--|--|----|-------|-------|-------|------|------------|------|------|--------|
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 11 | 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100 | 0 | 20 |

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

Answer : SELECT e1.* FROM emp_table_data e1 join emp_table_data e2 ON e1.mgr = e2.empno
WHERE e1.hiredate < e2. hiredate;

| ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|----|-------|-------|----------|------|------------|------|------|--------|
| 13 | 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000 | 0 | 20 |
| 2 | 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| 3 | 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |
| 12 | 7900 | JAMES | CLERK | 7698 | 1981-03-12 | 950 | 0 | 30 |
| 4 | 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | 0 | 20 |
| 6 | 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | 0 | 30 |
| 7 | 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | 0 | 10 |
| 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |

xiv. List the Emps of Deptno 20 who's Jobs are same as Deptno10.

Answer : SELECT * FROM emp_table_data WHERE deptno = 20 and job in (SELECT DISTINCT job
FROM emp_table_data WHERE deptno = 10);

| <div><div>←T→</div></div> | | | | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno | Pin |
|-----------------------------------|--|--|--|----|-------|-------|---------|------|------------|------|------|--------|------|
| <div><div><div></div></div></div> | <div><div><div></div></div></div> Edit | <div><div><div></div></div></div> Copy | <div><div><div></div></div></div> Delete | 4 | 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | 0 | 20 | NULL |
| <div><div><div></div></div></div> | <div><div><div></div></div></div> Edit | <div><div><div></div></div></div> Copy | <div><div><div></div></div></div> Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 | NULL |
| <div><div><div></div></div></div> | <div><div><div></div></div></div> Edit | <div><div><div></div></div></div> Copy | <div><div><div></div></div></div> Delete | 11 | 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100 | 0 | 20 | NULL |

xv. List the Emps who's Sal is same as FORD or SMITH in desc order of Sal.

Answer : SELECT * FROM `emp_table_data` WHERE sal in (SELECT sal FROM emp_table_data WHERE ename IN ('ford' , 'smith')) ORDER by sal DESC;

| | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|-------|---------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 8 | 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 13 | 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |

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

Answer : SELECT * FROM `emp_table_data` WHERE job in (SELECT job FROM emp_table_data WHERE ename in ('smith','allen'));

| | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|--------|----------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 11 | 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 12 | 7900 | JAMES | CLERK | 7698 | 1981-03-12 | 950 | 0 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 14 | 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | 0 | 10 |
| <input type="checkbox"/> Edit Copy Delete | 2 | 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 3 | 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 5 | 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 10 | 7844 | TURNER | SALESMAN | 7698 | 1981-08-09 | 1500 | 0 | 30 |

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

Answer : SELECT DISTINCT job FROM emp_table_data WHERE deptno = 10 and job not in (SELECT DISTINCT job FROM emp_table_data WHERE deptno = 20);

| | job |
|---|-----------|
| <input type="checkbox"/> Edit Copy Delete | PRESIDENT |

xviii. Find the highest sal of EMP table.

Answer : SELECT max(sal) as highestsal FROM emp_table_data;

highestsal

5000

xix. Find details of highest paid employee.

Answer : SELECT * FROM `emp_table_data` WHERE sal = (SELECT max(sal)FROM emp_table_data);

| | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|-------|-----------|-----|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 9 | 7839 | KING | PRESIDENT | 0 | 1981-11-17 | 5000 | 0 | 10 |

xx. Find the total sal given to the MGR.

Answer : SELECT sum(sal) as totalsalformanagers FROM emp_table_data WHERE job = 'manager';

totalsalformanagers

8275

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

Answer : SELECT * FROM `emp_table_data` WHERE ename LIKE '%a%';

| | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|---|----|-------|--------|----------|------|------------|------|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 2 | 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 3 | 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 5 | 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 6 | 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | 0 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 7 | 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | 0 | 10 |
| <input type="checkbox"/> Edit Copy Delete | 11 | 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100 | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 12 | 7900 | JAMES | CLERK | 7698 | 1981-03-12 | 950 | 0 | 30 |

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

Answer : `SELECT * FROM `emp_table_data` e1 WHERE sal = (SELECT min(sal) FROM emp_table_data e2 WHERE e1.job=e2.job) ORDER BY sal ASC;`

| | ID | Empno | ename | job | mgr | hiredate | sal | 1 | comm | deptno |
|---|----|-------|--------|-----------|------|------------|------|---|------|--------|
| <input type="checkbox"/> Edit Copy Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 3 | 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | | 500 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 5 | 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | | 1400 | 30 |
| <input type="checkbox"/> Edit Copy Delete | 7 | 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | | 0 | 10 |
| <input type="checkbox"/> Edit Copy Delete | 8 | 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000 | | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 13 | 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000 | | 0 | 20 |
| <input type="checkbox"/> Edit Copy Delete | 9 | 7839 | KING | PRESIDENT | 0 | 1981-11-17 | 5000 | | 0 | 10 |

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

Answer : `SELECT * FROM `emp_table_data` WHERE sal > (SELECT sal FROM emp_table_data WHERE ename = 'black');`

| ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno |
|--------------------------|-------|-------|-----|-----|----------|-----|------|--------|
| Query results operations | | | | | | | | |
| Create view | | | | | | | | |

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

Answer : `CREATE VIEW v2 AS SELECT e.ename, e.job, d.dname, d.Loc FROM emp_table_data e JOIN DEPT d ON e.deptno = d.deptno;`













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

Answer : `CREATE PROCEDURE e1 (INOUT dept int) BEGIN SELECT Ename, Dname FROM EMP JOIN DEPT USING (Deptno) WHERE Deptno = Dept; END;`

| Name | Type | Returns |
|-----------------------------|-----------|--------------------------|
| <input type="checkbox"/> e1 | PROCEDURE | Edit Execute Export Drop |
| <input type="checkbox"/> e2 | PROCEDURE | Edit Execute Export Drop |

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

Answer : ALTER TABLE emp_table_data add COLUMN Pin BIGINT;

| <div><div></div><div></div></div> | | | | ID | Empno | ename | job | mgr | hiredate | sal | comm | deptno | Pin |
|-----------------------------------|--|--|--|----|-------|--------|-----------|------|------------|------|------|--------|------|
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 1 | 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 2 | 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 3 | 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 4 | 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | 0 | 20 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 5 | 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 6 | 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | 0 | 30 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 7 | 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | 0 | 10 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 8 | 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000 | 0 | 20 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 9 | 7839 | KING | PRESIDENT | 0 | 1981-11-17 | 5000 | 0 | 10 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 10 | 7844 | TURNER | SALESMAN | 7698 | 1981-08-09 | 1500 | 0 | 30 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 11 | 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100 | 0 | 20 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 12 | 7900 | JAMES | CLERK | 7698 | 1981-03-12 | 950 | 0 | 30 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 13 | 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000 | 0 | 20 | NULL |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 14 | 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | 0 | 10 | NULL |

xxvii. 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'.

Answer : ALTER TABLE emp_table_data MODIFY COLUMN ename VARCHAR(40);

DELIMITER \$\$

CREATE TRIGGER after_sal_update

AFTER UPDATE ON emp_table_data

FOR EACH ROW

BEGIN

IF OLD.Sal <> NEW.Sal THEN

INSERT INTO emp_log (Empno, OldSalary, NewSalary, Action)

VALUES (OLD.Empno, OLD.Sal, NEW.Sal, 'New Salary');

END IF;

END \$\$

DELIMITER ;

| | Name | Time | Event | |
|--------------------------|------------------|-------|--------|--|
| <input type="checkbox"/> | after_sal_update | AFTER | UPDATE |  Edit  Export  Drop |