**Module-3 ( RDBMS & DATABASE PROGRAMMING WITH JDBC )**

* CREATE TABLE 1:-

CREATE TABLE table1

 (  
  Empno int(4) PRIMARY KEY  AUTO\_INCREMENT,  
  Ename varchar(10) ,  
  Job varchar(9) ,  
  Mgr int(4) ,  
  Hiredate date ,  
  Sal decimal(7,2) ,  
  Comm  decimal(7,2),  
  Deptno  int(2) ,  
)

* CREATE DEPT TABLE :-

REATE TABLE dept

 (  
  Deptno int(2) PRIMARY KEY,  
  Dname varchar(14) ,  
  Loc varchar(13) ,  
)

* CREATE STUDENT TABLE :-

REATE TABLE student

(  
  Rno int(2) PRIMARY KEY;  
  Sname varchar(14) ;  
  City varchar(20) ;  
  State varchar(20) ;  
)

* EMP LOG TABLE:-

REATE TABLE  emp log

 (  
  Field int(5),  
  Log\_date date ,  
  New\_salary int(10) ,  
  Action varchar(20) ,   
)

* DEPT TABLE DATA :-

CREATE TABLE

CREATE TABLE dept data(  
  Deptno int(10) ,  
  dname varchar(20) ,  
  loc varchar(20) ,   
)

INSERT DATA

INSERT INTO deptdata (Deptno,dname,loc) Values(10,ACCOUNTING,NEW YORK);

INSERT INTO deptdata (Deptno,dname,loc) Values(20,RESEARCH,DALLAS);

INSERT INTO deptdata (Deptno,dname,loc) Values(30,SALES,CHICAGO);

INSERT INTO deptdata (Deptno,dname,loc) Values(40,OPERATIONS,BOSTON);

* EMP TABLE DATA :-

REATE TABLE empdata

 (  
  EMPNO int(10) ,  
  ename varchar(20) ,  
  job varchar(20) ,  
  mgr varchar(15) ,  
  hiredate varchar(20) ,  
  sal varchar(15) ,  
  comm varchar(15) ,  
  deptno int(10) ,   
)

**1. Select unique job from EMP table**

🡪 SELECT DISTINCT job FROM empdata

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

🡪 SELECT \* FROM empdata ORDER BY deptno ASC

🡪 SELECT \* FROM empdata ORDER BY job DESC

**3. Display all the unique job groups in the descending order?**

**🡪** SELECT \*FROM empdata ORDER BY job DESC

**4. List the emps who joined before 1981.**

**🡪** SELECT \*FROM empdata WHERE hiredate > 1981

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

**🡪** SELECT \*FROM empdata ORDER BY sal\*12 ASC

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

🡪 SELECT \* FROM empdata WHERE mgr=7369

**7. Display all the details of the emps who’s Comm. Is more than their Sal?**

**🡪** SELECT MAX(comm) FROM empdata

**8. List the emps who are either ‘CLERK’ or ‘ANALYST’ in the Desc order**

**🡪** SELECT \*FROM empdata WHERE job ='CLERK' OR job ='ANALYST' ORDER BY job DESC;

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

🡪 SELECT \*FROM empdata WHERE sal\*12 BETWEEN 22000 AND 45000

**10. List the Enames those are starting with ‘S’ and with five characters.**

**🡪** SELECT \*FROM empdata WHERE ename LIKE 'S%'

**11. List the emps whose Empno not starting with digit78**

🡪 SELECT \*FROM empdata WHERE EMPNO NOT LIKE '78%'

**12. List all the Clerks of Deptno 20.**

🡪 SELECT \*FROM empdata WHERE job LIKE 'CLERK' OR deptno = 20

**13. List the Emps who are senior to their own MGRS**

🡪 SELECT MAX(mgr)FROM empdata

**14. List the Emps of Deptno 20 who’s Jobs are same as Deptno10**

**🡪** SELECT \* FROM empdata WHERE deptno=20 AND job IN (SELECT job FROM empdata WHERE deptno=10)

**15. List the Emps who’s Sal is same as FORD or SMITH in desc order of Sal**

🡪 SELECT \* FROM empdata WHERE sal IN (SELECT sal FROM empdata WHERE ( ename = ‘SMITH’ OR ename = ‘FORD’ )) ORDER BY sal DESC;

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

🡪 SELECT \* FROM empdata WHERE job =(SELECT job FROM empdata WHERE ename='SMITH');

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

🡪 select \* from emp where deptno=20 and job in (select job from emp where deptno=10)

**18. Find the highest sal of EMP table**

🡪 SELECT MAX(sal) FROM empdata;

**19. Find details of highest paid employee.**

🡪 SELECT \*FROM empdata WHERE sal IN(SELECT MAX(sal)FROM empdata);

**20.Find the total sal given to the MGR**

**🡪** SELECT SUM(sal)FROM empdata WHERE job = 'MANAGER';

**21. List the emps whose names contains ‘A’**.

🡪 SELECT \*FROM empdata WHERE ename LIKE '%A%';

**22. List the emps whose sal greater than Blake’s sal.**

🡪 SELECT \*FROM empdata WHERE sal >(SELECT sal FROM empdata WHERE ename = 'BLAKE');

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

🡪 SELECT empdata.EMPNO, empdata.ename, deptdata.dname FROM empdata

LEFT JOIN deptdata ON empdata.Deptno = deptdata.Deptno;

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

🡪 DELIMITER $$

CREATE PROCEDURE insertdiffdata( i INT(10),j VARCHAR(20), k VARCHAR(20))

BEGIN

INSERT INTO empdata( deptno,ename,dname) VALUES(i,j,k);

END

**25. Add column Pin with bigint data type in table student.**

🡪 ALTER TABLE student ADD pin BIGINT(20);

**26. Modify the student table to change the sname length from 14 to 40.**

🡪 ALTER TABLE student MODIFY Sname VARCHAR(40);

🡪 DELIMITER $$

CREATE TRIGGER update\_trigger AFTER UPDATE ON empdata FOR EACH ROW

BEGIN

INSERT INTO emplog(emp\_id,Log\_date,New\_salary,action\_performed) VALUES ( new.EMPNO,new.hiredate,new.sal,"New Salary!");

END