|  |  |  |
| --- | --- | --- |
| Emp | Dept | Salgrade |
| EMPNO  ENAME  JOB  MGR  HIREDATE  SAL  COMM  DEPTNO | DEPTNO  DNAME  LOC | GRADE  LOSAL  HISAL |

Create tables with following structure. These tables are readily available in Oracle database, however, you can easily create these in MySQL or other RDBMS using scripts mentioned in various online tutorials such as <http://oraclemine.com/emp-and-dept-tables-in-oracle/>

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | 0 | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | 0 | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | 0 | 30 |
| 7782 | CLARK | MANAGER | 7839 | 1981-01-09 | 2450 | 0 | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000 | 0 | 20 |
| 7839 | KING | PRESIDENT | 0 | 1981-11-17 | 5000 | 0 | 10 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500 | 0 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100 | 0 | 20 |
| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950 | 0 | 30 |
| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000 | 0 | 20 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | 0 | 10 |

Post table creation and populating with sample data, try writing queries from below list to practice your skills

1. Find the details of all the managers (in any dept) and clerks in dept 20.

select \* from EMP

where JOB = 'MANAGER' or JOB = 'CLERK' and DEPTNO = 20;

1. Find the details of all the managers in dept. 10 and all clerks in dept 20 and all employees who are neither managers nor clerks but whose salary is more than or equal to 2000/-.

select \* from EMP

where JOB = 'MANAGER' and DEPTNO = 10 or JOB = 'CLERK' and DEPTNO = 20

or JOB != 'MANAGER' && JOB != 'CLERK' and SAL >= 2000 ;

1. Find the names of anyone in dept. 20 who is neither manager nor clerk.

select ENAME from EMP where DEPTNO = 20 and JOB != 'MANAGER' && JOB != 'CLERK';

1. Find the names of employees who earn between 1200/- and 1400/-.

select ENAME from EMP where SAL between 1200 and 1400;

1. Find the employees who are clerks, analysts or salesmen.

select \* from EMP where JOB = 'CLERK' or JOB = 'ANALYST' or JOB = 'SALESMAN';

1. Find the employees who are not clerks, analysts or salesmen.

select \* from EMP where JOB != 'CLERK' and JOB != 'ANALYST' and JOB != 'SALESMAN';

1. Find the employees who do not receive commission.

select \* from EMP where COMM is null;

1. Find the different jobs of employees receiving commission.

select JOB from EMP where COMM is not null;

1. Query Emp table.

select \* from EMP;

1. Select the employees in department 30.

select \* from EMP where DEPTNO = 30;

1. List the names, numbers and departments of all clerks.

select EMPNO, ENAME, DEPTNO from EMP where JOB ='CLERK';

1. Find the department numbers and names of employees of all departments with deptno greater than 20.

select DEPTNO, ENAME from EMP where DEPTNO > 20;

1. Find employees whose commission is greater than their salaries.

Select \* from EMP where COMM > SAL;

1. Find employees whose commission is greater than 60 % of their salaries.

select \* from EMP where (COMM\*SAL) > (SAL\*0.6);

1. List name, job and salary of all employees in department 20 who earn more than 2000/-.

select ENAME, JOB, SAL from EMP where DEPTNO = 20 and SAL > 2000;

1. Find all salesmen in department 30 whose salary is greater than 1500/-.

select \* from EMP where DEPTNO = 30 and Job ='SALESMAN' and SAL > 1500;

1. Find all employees whose designation is either manager or president.

select \* from EMP Where JOB = 'MANAGER' or JOB = 'PRESIDENT';

1. Find all managers who are not in department 30.

select \* from EMP where DEPTNO != 30 and JOB ='MANAGER';

1. Find all the details of managers and clerks in dept 10.

select \* from EMP where DEPTNO=10 or JOB = 'CLERK' or JOB = 'MANAGER';

1. Find the employees who do not receive commission or whose commission is less than 100/-.

select \* from EMP where COMM is Null or COMM < 100;

create database assign;

CREATE TABLE EMP

(EMPNO int NOT NULL,

ENAME VARCHAR(20),

JOB VARCHAR(15),

MGR int,

HIREDATE DATE,

SAL double,

COMM double(7, 2),

DEPTNO int(2));

INSERT INTO EMP VALUES

(7369, 'SMITH', 'CLERK', 7902,

'1980-12-17', 800, NULL, 20);

INSERT INTO EMP VALUES

(7499, 'ALLEN', 'SALESMAN', 7698,

'1981-02-20', 1600, 300, 30);

INSERT INTO EMP VALUES

(7521, 'WARD', 'SALESMAN', 7698,

'1981-02-22', 1250, 500, 30);

INSERT INTO EMP VALUES

(7566, 'JONES', 'MANAGER', 7839,

'1981-04-02', 2975, NULL, 20);

INSERT INTO EMP VALUES

(7654, 'MARTIN', 'SALESMAN', 7698,

'1981-09-28', 1250, 1400, 30);

INSERT INTO EMP VALUES

(7698, 'BLAKE', 'MANAGER', 7839,

'1981-05-01', 2850, NULL, 30);

INSERT INTO EMP VALUES

(7782, 'CLARK', 'MANAGER', 7839,

'1981-01-09', 2450, NULL, 10);

INSERT INTO EMP VALUES

(7788, 'SCOTT', 'ANALYST', 7566,

'1982-12-09', 3000, NULL, 20);

INSERT INTO EMP VALUES

(7839, 'KING', 'PRESIDENT', NULL,

'1981-11-17', 5000, NULL, 10);

INSERT INTO EMP VALUES

(7844, 'TURNER', 'SALESMAN', 7698,

'1981-09-08', 1500, NULL, 30);

INSERT INTO EMP VALUES

(7876, 'ADAMS', 'CLERK', 7788,

'1983-01-12', 1100, NULL, 20);

INSERT INTO EMP VALUES

(7900, 'JAMES', 'CLERK', 7698,

'1981-12-03', 950, NULL, 30);

INSERT INTO EMP VALUES

(7902, 'FORD', 'ANALYST', 7566,

'1981-12-03', 3000, NULL, 20);

INSERT INTO EMP VALUES

(7934, 'MILLER', 'CLERK', 7782,

'1982-01-23', 1300, NULL, 10);

CREATE TABLE DEPT

(DEPTNO int(2),

DNAME VARCHAR(15),

LOC VARCHAR(13) );

INSERT INTO DEPT VALUES (10, 'ACCOUNTING', 'NEW YORK');

INSERT INTO DEPT VALUES (20, 'RESEARCH', 'DALLAS');

INSERT INTO DEPT VALUES (30, 'SALES', 'CHICAGO');

INSERT INTO DEPT VALUES (40, 'OPERATIONS', 'BOSTON');

CREATE TABLE SALGRADE

(GRADE int,

LOSAL int ,

HISAL int);

INSERT INTO SALGRADE VALUES (1, 700, 1200);

INSERT INTO SALGRADE VALUES (2, 1201, 1400);

INSERT INTO SALGRADE VALUES (3, 1401, 2000);

INSERT INTO SALGRADE VALUES (4, 2001, 3000);

INSERT INTO SALGRADE VALUES (5, 3001, 9999);

COMMIT;

alter table emp add constraint emp\_pk primary key (empno);

alter table dept add constraint dept\_pk primary key (deptno);

alter table emp add constraint emp\_fk foreign key (deptno) references dept (deptno);

select \* from EMP;

select \* from DEPT;

select \* from SALGRADE;