**ASSIGNMENT 3**

**1.Count the total number of orders.**

SELECT COUNT(Order\_no) FROM sales\_order;

**2. Calculate the average sell price of all the products.**

SELECT AVG(Sell\_price) FROM product\_master;

**3. Count the number of products having price greater than or equal to 1500.**

SELECT COUNT(Sell\_price) FROM product\_master WHERE Sell\_price>=1500;

**4. Determine the maximum and minimum product prices. Rename the output as max\_price and min\_price respectively.**

SELECT max(Sell\_price) as max\_price,min(Sell\_price) as min\_price FROM product\_master;

Emp table

CREATE TABLE Emp (

EMPNO NUMBER(4,0) NOT NULL,

ENAME VARCHAR2(10),

JOB VARCHAR2(9),

MGR NUMBER(4,0),

HIREDATE DATE,

SAL NUMBER(7,2),

COMM NUMBER(7,2),

DEPTNO NUMBER(2,0) NOT NULL

);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7369, 'SMITH', 'CLERK', 7902, TO\_DATE('17-DEC-80', 'DD-MON-YY'), 800, NULL, 20);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7499, 'ALLEN', 'SALESMAN', 7698, TO\_DATE('20-FEB-81', 'DD-MON-YY'), 1600, 300, 30);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7521, 'WARD', 'SALESMAN', 7698, TO\_DATE('22-FEB-81', 'DD-MON-YY'), 1250, 500, 30);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7566, 'JONES', 'MANAGER', 7839, TO\_DATE('02-APR-81', 'DD-MON-YY'), 2975, NULL, 20);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7654, 'MARTIN', 'SALESMAN', 7698, TO\_DATE('28-SEP-81', 'DD-MON-YY'), 1250, 1400, 30);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7698, 'BLAKE', 'MANAGER', 7839, TO\_DATE('01-MAY-81', 'DD-MON-YY'), 2850, NULL, 30);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7782, 'CLARK', 'MANAGER', 7839, TO\_DATE('09-JUN-81', 'DD-MON-YY'), 2450, NULL, 10);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7788, 'SCOTT', 'ANALYST', 7566, TO\_DATE('19-APR-87', 'DD-MON-YY'), 3000, NULL, 20);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7839, 'KING', 'PRESIDENT', NULL, TO\_DATE('17-NOV-81', 'DD-MON-YY'), 5000, NULL, 10);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7844, 'TURNER', 'SALESMAN', 7698, TO\_DATE('08-SEP-81', 'DD-MON-YY'), 1500, 0, 30);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7876, 'ADAMS', 'CLERK', 7788, TO\_DATE('23-MAY-87', 'DD-MON-YY'), 1100, NULL, 20);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7900, 'JAMES', 'CLERK', 7698, TO\_DATE('03-DEC-81', 'DD-MON-YY'), 950, NULL, 30);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7902, 'FORD', 'ANALYST', 7566, TO\_DATE('03-DEC-81', 'DD-MON-YY'), 3000, NULL, 20);

INSERT INTO Emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES

(7934, 'MILLER', 'CLERK', 7782, TO\_DATE('23-JAN-82', 'DD-MON-YY'), 1300, NULL, 10);

Dept table

CREATE TABLE Dept (

DEPTNO NUMBER(2,0) NOT NULL,

DNAME VARCHAR2(14) NOT NULL,

LOC VARCHAR2(13) NOT NULL

);

INSERT INTO Dept (DEPTNO, DNAME, LOC) VALUES (10, 'ACCOUNTING', 'NEW YORK');

INSERT INTO Dept (DEPTNO, DNAME, LOC) VALUES (20, 'RESEARCH', 'DALLAS');

INSERT INTO Dept (DEPTNO, DNAME, LOC) VALUES (30, 'SALES', 'CHICAGO');

INSERT INTO Dept (DEPTNO, DNAME, LOC) VALUES (40, 'OPERATIONS', 'BOSTON');

Salgrade table

CREATE TABLE Salgrade (

GRADE NUMBER,

LOSAL NUMBER,

HISAL NUMBER

);

INSERT INTO Salgrade (GRADE, LOSAL, HISAL) VALUES (1, 700, 1200);

INSERT INTO Salgrade (GRADE, LOSAL, HISAL) VALUES (2, 1201, 1400);

INSERT INTO Salgrade (GRADE, LOSAL, HISAL) VALUES (3, 1401, 2000);

INSERT INTO Salgrade (GRADE, LOSAL, HISAL) VALUES (4, 2001, 3000);

INSERT INTO Salgrade (GRADE, LOSAL, HISAL) VALUES (5, 3001, 9999);

**6.**

**a) List all department no, employee no, manager no. from emp table.**

select deptno,empno,mgr from emp;

**b) List all department name and location from dept table.**

Select deptno,loc from dept;

**c) List the employees belong to the department 20.**

select ename from emp where deptno=20;

**d) List the name and salary of the employee whose salary is more than 2500**

SELECT ENAME, SAL FROM Emp

WHERE SAL > 2500;

**e) List the details of the employee who have joined before end of July 81.**

SELECT \*FROM Emp

WHERE HIREDATE < TO\_DATE('31-JUL-81', 'DD-MON-YY');

**f) List the name of the employees who are not manager.**

SELECT ENAME FROM Emp

WHERE JOB not like 'MANAGER';

**g) List the name of employees whose name end with ‘S’.**

SELECT ENAME FROM Emp WHERE ENAME LIKE '%S';

**h) List the name of employees whose name has exactly 5 characters long**

SELECT ENAME FROM Emp WHERE LENGTH(ENAME) = 5;

**i)List the name of employees whose name having ‘R’ as the third character.**

select ename from emp where ename like '\_\_R%';

**j) List all employee names and their salaries, whose salary lies between 1500/- and 3500/- both inclusive.**

SELECT ENAME, SAL FROM Emp WHERE SAL>=1500 AND SAL<=3500;

**k) List all employee names and their and their manager whose manager is 7902 or 7566 0r 7789.**

Select ename, mgr from emp where mgr in (7602,7566,7789);

**l) List all employees which start with either J or T.**

SELECT ENAME FROM Emp WHERE ENAME LIKE 'J%' OR ENAME LIKE 'T%';

**m) List all employee names and jobs, whose job title includes M or P.**

SELECT ENAME, JOB FROM Emp WHERE JOB LIKE '%M%' OR JOB LIKE '%P%';

**n) List all jobs available in employee table.**

select distinct(job) from emp;

**o) List all employees who belong to the department 10 or 20.**

Select ename from emp where deptno in (10,20);

**p) List all employee names, salary and 15% raise in salary.**

select ename, sal, sal\*0.15 from emp;

**q) List minimum, maximum, average salaries of employee.**

Select max(sal), min(sal), avg(sal) from emp;

**r) Find how many job titles are available in employee table.**

Select count(distinct(job)) from emp;

**s) What is the difference between maximum and minimum salaries of employees in the organization?**

Select max(sal)-min(sal) from emp;

**t) Find how much amount the company is spending towards salaries.**

Select sum(sal) from emp;

**u) Display name of employees with deptno. 20.**

Select ename from emp where deptno=20;

**v) List ename who are not eligible for commission.**

select ename from emp where comm is null;

**w) Find no. of dept in employee table.**

select count(distinct(deptno)) from emp;

**x) List ename and designation of the employee who does not report to anybody.**

select ename,job from emp where mgr is null;

**y) List the name of the employees who are less than 38 years old in the organization with respect to today’s date.**

select ename from emp where (sysdate-hiredate)/365<=38;