NAME – ASHMIT THAWAIT ROLL NO – 102203790 SUBGROUP 2CO17

ASSIGNMENT 6 DBMS

```
CREATE TABLE dept (
   deptno NUMBER PRIMARY KEY,
    deptname VARCHAR2(50)
);
CREATE TABLE emp (
   empno NUMBER PRIMARY KEY,
    empname VARCHAR2(50),
   deptno NUMBER,
   job VARCHAR2(50),
    salary NUMBER(10, 2),
    CONSTRAINT emp_dept_fk FOREIGN KEY (deptno) REFERENCES dept(deptno)
);
INSERT INTO dept VALUES (20, 'Dept20');
INSERT INTO dept VALUES (30, 'Dept30');
INSERT INTO dept VALUES (40, 'Dept40');
INSERT INTO dept VALUES (50, 'Dept50');
INSERT INTO dept VALUES (60, 'Dept60');
INSERT INTO dept VALUES (70, 'Dept70');
INSERT INTO dept VALUES (80, 'Dept80');
INSERT INTO dept VALUES (90, 'Dept90');
INSERT INTO dept VALUES (100, 'Dept100');
INSERT INTO dept VALUES (110, 'Dept110');
INSERT INTO emp VALUES (1, 'Employee1', 'Job1', 2000, 20, NULL);
INSERT INTO emp VALUES (2, 'Employee2', 'Job2', 2500, 20, 1);
INSERT INTO emp VALUES (3, 'Employee3', 'Job3', 3000, 30, 1);
INSERT INTO emp VALUES (4, 'Employee4', 'Job1', 2200, 30, 2);
INSERT INTO emp VALUES (5, 'Employee5', 'Job2', 2600, 40, 2);
INSERT INTO emp VALUES (6, 'Employee6', 'Job3', 3100, 40, 3);
INSERT INTO emp VALUES (7, 'Employee7', 'Job1', 2300, 50, 3);
INSERT INTO emp VALUES (8, 'Employee8', 'Job2', 2700, 50, 4);
INSERT INTO emp VALUES (9, 'Employee9', 'Job3', 3200, 60, 4);
INSERT INTO emp VALUES (10, 'Employee10', 'Job1', 2400, 60, 5);
SELECT COUNT(*) AS total_employees FROM emp;
SELECT COUNT(*) AS total departments FROM dept;
SELECT d.dept_name, e.emp_name, e.job, e.sal
FROM dept d
LEFT JOIN emp e ON d.deptno = e.deptno;
SELECT SUM(sal) AS total_salary, MAX(sal) AS max_salary, MIN(sal) AS min_salary
FROM emp
WHERE deptno = 30;
SELECT emp_name
FROM emp
WHERE sal = (SELECT MAX(sal) FROM emp);
```

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```
SELECT d.dept_name, SUM(e.sal) AS total_salary
FROM dept d

LEFT JOIN emp e ON d.deptno = e.deptno
GROUP BY d.dept_name;

SELECT job, SUM(sal) AS total_salary
FROM emp
GROUP BY job;

SELECT d.dept_name, e.job, SUM(e.sal) AS total_salary
FROM dept d

LEFT JOIN emp e ON d.deptno = e.deptno
GROUP BY d.dept_name, e.job;

SELECT job, AVG(sal) AS average_salary
FROM emp
WHERE deptno = 20
GROUP BY job;
```