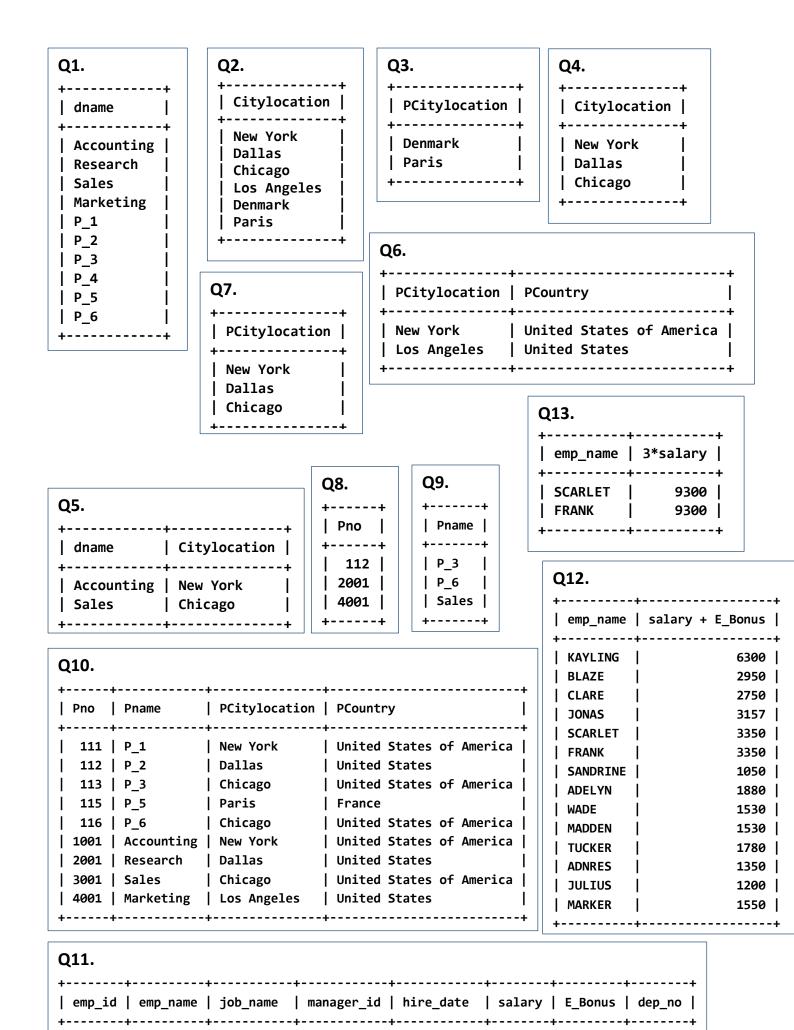
PRACTICAL - 5

```
CREATE DATABASE dbms;
USE dbms;
CREATE TABLE EMPLOYEE (
    emp_id INT, emp_name VARCHAR(100), job_name VARCHAR(100), manager_id INT,
    hire date DATE, salary INT, E Bonus INT, dep no INT
);
INSERT INTO EMPLOYEE (emp id, emp name, job name, manager id, hire date, salary,
E Bonus, dep no)
VALUES (68319, 'KAYLING', 'PRESIDENT', NULL, '1991-11-18', 6000, 300, 1001),
       (66928, 'BLAZE', 'MANAGER', 68319, '1991-05-01', 2750, 200, 3001),
       (67832, 'CLARE', 'MANAGER', 68319, '1991-06-09', 2550, 200, 1001),
       (65646, 'JONAS', 'MANAGER', 68319, '1991-04-02', 2957, 200, 2001),
       (67858, 'SCARLET', 'ANALYST', 65646, '1997-04-19', 3100, 250, 2001),
       (69062, 'FRANK', 'ANALYST', 65646, '1991-12-03', 3100, 250, 2001),
       (63679, 'SANDRINE', 'CLERK', 69062, '1990-12-18', 900, 150, 2001),
       (64989, 'ADELYN', 'SALESMAN', 66928, '1991-02-20', 1700, 180, 3001),
       (65271, 'WADE', 'SALESMAN', 66928, '1991-02-22', 1350, 180, 3001),
       (66564, 'MADDEN', 'SALESMAN', 66928, '1991-09-28', 1350, 180, 3001),
       (68454, 'TUCKER', 'SALESMAN', 66928, '1991-09-08', 1600, 180, 3001),
       (68736, 'ADNRES', 'CLERK', 67858, '1997-05-23', 1200, 150, 2001),
       (69000, 'JULIUS', 'CLERK', 66928, '1991-12-03', 1050, 150, 3001),
       (69324, 'MARKER', 'CLERK', 67832, '1992-01-23', 1400, 150, 1001);
CREATE TABLE DEPARTMENT(
    deptno INT, dname VARCHAR(100), Citylocation VARCHAR(100), dCountry VARCHAR(100)
);
INSERT INTO DEPARTMENT (deptno, dname, Citylocation, dCountry)
VALUES (1001, 'Accounting', 'New York', 'United States of America'),
       (2001, 'Research', 'Dallas', 'United States'),
       (3001, 'Sales', 'Chicago', 'United States of America'),
       (4001, 'Marketing', 'Los Angeles', 'United States');
CREATE TABLE PROJECT(
    Pno INT, Pname VARCHAR(100), PCitylocation VARCHAR(100), PCountry VARCHAR(100)
);
INSERT INTO PROJECT (Pno, Pname , PCitylocation, PCountry)
VALUES (111, 'P_1', 'New York', 'United States of America'),
       (112, 'P_2', 'Dallas', 'United States'),
       (113, 'P_3', 'Chicago', 'United States of America'),
       (114, 'P_4', 'Denmark', 'northern Europe'),
       (115, 'P_5', 'Paris', 'France'),
       (116, 'P_6', 'Chicago', 'United States of America');
```

```
-- Q1. Display all the Departments and Projects available.
SELECT dname FROM DEPARTMENT UNION SELECT Pname FROM PROJECT;
-- Q2. Display the Locations of Departments and Projects.
SELECT Citylocation FROM DEPARTMENT UNION SELECT PCitylocation FROM PROJECT;
-- Q3. Display the Project's Locations which are not the Department's Locations.
SELECT PCitylocation FROM PROJECT EXCEPT SELECT Citylocation FROM DEPARTMENT;
-- Q4. Display the Department's Locations which are also Project's Locations.
SELECT Citylocation FROM DEPARTMENT intersect SELECT PCitylocation FROM PROJECT;
-- Q5. Display the cities of United States of America in which Projects are been
designed and also display their respective Departments.
SELECT DISTINCT dname, Citylocation FROM DEPARTMENT, PROJECT WHERE (dCountry =
'United States of America' AND Citylocation = PCitylocation);
-- Q6. Display the Countries and cities for projects P_1 and P_2 & Departments
Accounting and Marketing.
SELECT PCitylocation, PCountry FROM PROJECT WHERE Pname = 'P_1' UNION SELECT
PCitylocation, PCountry FROM PROJECT WHERE Pname = 'P_2' INTERSECT
SELECT Citylocation, dCountry FROM DEPARTMENT WHERE dname = 'Accounting' UNION
SELECT Citylocation, dCountry FROM DEPARTMENT WHERE dname = 'Marketing';
-- Q7. Display those Cities which are same for Projects and Departments.
SELECT PCitylocation FROM PROJECT INTERSECT SELECT Citylocation FROM DEPARTMENT;
-- Q8. Display Project numbers and Department numbers for which country is United
States.
SELECT Pno FROM PROJECT WHERE PCountry = 'United States' UNION SELECT deptno FROM
DEPARTMENT WHERE dCountry = 'United States';
-- Q9. Find the names of the projects and Departments which have city as Chicago.
SELECT Pname FROM PROJECT WHERE PCitylocation = 'Chicago' UNION SELECT dname FROM
DEPARTMENT WHERE Citylocation = 'Chicago';
-- Q10.Display the details for projects and Departments which don't have country as
Northern Europe.
SELECT * FROM PROJECT WHERE PCountry != 'northern Europe' UNION SELECT * FROM
DEPARTMENT WHERE dCountry != 'northern Europe';
-- Q11 Get details of the Employee with the largest Salary.
SELECT * FROM EMPLOYEE WHERE salary = (SELECT MAX(salary) FROM EMPLOYEE);
-- Q12. Display the Total Salary of Employees including Bonus.
SELECT emp_name, salary + E_Bonus FROM EMPLOYEE;
-- Q13. Display the Salaries if it is increased by 3 times more than original
Salaries of Employees who work as Analyst.
SELECT emp_name, 3*salary FROM EMPLOYEE WHERE job_name = 'ANALYST';
```



NULL | 1991-11-18 |

6000

68319 | KAYLING | PRESIDENT |