PS 2-Ques 1  
CREATE TABLE IF NOT EXISTS EMPTABLE  
(  
 Empid NUMERIC(6) PRIMARY KEY,  
 Name VARCHAR(10) NOT NULL,  
 City VARCHAR(10),  
 DOB DATE NOT NULL,  
 Sex CHARACTER(1),  
 DOJ DATE NOT NULL,  
 Salary NUMERIC(8, 2),  
 Department VARCHAR(10),  
 CONSTRAINT Name\_Check CHECK (Name REGEXP '^[A**-**Z]'),  
 CONSTRAINT City\_Check CHECK (Name REGEXP '^[A**-**Z]'),  
 CONSTRAINT Sex\_Check CHECK (Sex in ('M', 'F')),  
 CONSTRAINT Salary\_Check CHECK (Salary BETWEEN 15000 AND 50000),  
 CONSTRAINT Department\_Check CHECK (Department in ('ACC', 'FIN', 'EDP'))  
);  
  
PS 2-Ques 2  
INSERT INTO EMPTABLE  
VALUES (1001, 'Anish', 'Chennai', STR\_TO\_DATE('21-apr-1966', '%d-%b-%Y'), 'M', STR\_TO\_DATE('10-jun-1986', '%d-%b-%Y'),  
 17000, 'ACC'),  
 (1002, 'Anandi', 'Ooty', STR\_TO\_DATE('11-sep-1975', '%d-%b-%Y'), 'F', STR\_TO\_DATE('17-jun-1997', '%d-%b-%Y'),  
 15000,  
 'FIN'),  
 (1003, 'Shiva', 'Kambam', STR\_TO\_DATE('07-feb-1966', '%d-%b-%Y'), 'M', STR\_TO\_DATE('21-apr-1991', '%d-%b-%Y'),  
 21000, 'EDP'),  
 (1004, 'Deepa', 'Trichi', STR\_TO\_DATE('14-feb-1967', '%d-%b-%Y'), 'M', STR\_TO\_DATE('21-apr-1990', '%d-%b-%Y'),  
 15000, 'FIN'),  
 (1005, 'Engela', NULL, STR\_TO\_DATE('23-mar-1970', '%d-%b-%Y'), 'F', STR\_TO\_DATE('21-apr-1986', '%d-%b-%Y'),  
 32000, 'EDP'),  
 (1006, 'Krish', 'Trichi', STR\_TO\_DATE('14-jul-1970', '%d-%b-%Y'), 'F', STR\_TO\_DATE('21-mar-1989', '%d-%b-%Y'),  
 15000, 'ACC'),  
 (1007, 'Kamal', 'Ooty', STR\_TO\_DATE('14-jul-1966', '%d-%b-%Y'), 'M', STR\_TO\_DATE('04-mar-1990', '%d-%b-%Y'),  
 15000,  
 'FIN'),  
 (1008, 'Neela', 'Madurai', STR\_TO\_DATE('27-jun-1969', '%d-%b-%Y'), 'F', STR\_TO\_DATE('07-apr-1990', '%d-%b-%Y'),  
 25000, 'EDP'),  
 (1009, 'Bala', 'Coimbatore', STR\_TO\_DATE('29-oct-1962', '%d-%b-%Y'), 'M', STR\_TO\_DATE('21-apr-1993', '%d-%b-%Y'),  
 20000, 'ACC'),  
 (1010, 'Rajesh', 'Pollachi', STR\_TO\_DATE('21-apr-1966', '%d-%b-%Y'), 'M', STR\_TO\_DATE('12-oct-1993', '%d-%b-%Y'),  
 17000, 'FIN'),  
 (1011, 'Rekha', 'Coimbatore', STR\_TO\_DATE('21-apr-1970', '%d-%b-%Y'), 'F',  
 STR\_TO\_DATE('14-dec-1999', '%d-%b-%Y'),  
 20000, 'ACC'),  
 (1012, 'Xavier', 'Madurai', STR\_TO\_DATE('21-apr-1971', '%d-%b-%Y'), 'M', STR\_TO\_DATE('12-mar-1997', '%d-%b-%Y'),  
 20000, 'ACC'),  
 (1013, 'Vinotha', 'Trichi', STR\_TO\_DATE('21-apr-1972', '%d-%b-%Y'), 'F', STR\_TO\_DATE('21-apr-1994', '%d-%b-%Y'),  
 17000, 'ACC');  
  
PS 2-Ques 3-01  
SELECT \*  
FROM EMPTABLE;  
  
PS 2-Ques 3-02  
SELECT Empid, Name, City, Salary  
FROM EMPTABLE;  
  
PS 2-Ques 3-03  
SELECT \*  
FROM EMPTABLE  
WHERE Name = 'Bala';  
  
PS 2-Ques 3-04  
SELECT \*  
FROM EMPTABLE  
WHERE Sex = 'M';  
  
PS 2-Ques 3-05  
SELECT \*  
FROM EMPTABLE  
WHERE City = 'Coimbatore';  
  
PS 2-Ques 3-06  
SELECT \*  
FROM EMPTABLE  
WHERE City IN ('Coimbatore', 'Trichi', 'Chennai');  
  
PS 2-Ques 3-07  
SELECT Name  
FROM EMPTABLE  
WHERE City IS NULL;  
  
PS 2-Ques 3-08  
SELECT DISTINCT City  
FROM EMPTABLE;  
  
PS 2-Ques 3-09  
SELECT Empid, Salary \* 2  
FROM EMPTABLE;  
  
PS 2-Ques 3-10  
SELECT Name, City  
FROM EMPTABLE  
WHERE Salary > 50000;  
  
PS 2-Ques 3-11  
SELECT Empid, Name, Salary \* 1.05 AS 'Increased Salary'  
FROM EMPTABLE;  
  
PS 2-Ques 3-12  
SELECT Empid, Name, Salary \* 1.05 AS 'Increased Salary'  
FROM EMPTABLE  
ORDER BY `Increased Salary` DESC;  
  
PS 2-Ques 3-13  
SELECT \*  
FROM EMPTABLE  
ORDER BY Name, Salary DESC;  
  
PS 2-Ques 3-14  
SELECT COUNT(\*)  
FROM EMPTABLE;  
  
PS 2-Ques 3-15  
SELECT COUNT(DISTINCT Department)  
FROM EMPTABLE;  
  
PS 2-Ques 3-16  
SELECT COUNT(\*)  
FROM EMPTABLE  
WHERE Department = 'FIN';  
  
PS 2-Ques 3-17  
SELECT COUNT(\*)  
FROM EMPTABLE  
WHERE Sex = 'M';  
  
PS 2-Ques 3-18  
SELECT Name  
FROM EMPTABLE  
WHERE Salary = (SELECT MAX(Salary) FROM EMPTABLE);  
  
PS 2-Ques 3-19  
SELECT Name  
FROM EMPTABLE  
WHERE Salary = (SELECT MIN(Salary) FROM EMPTABLE);  
  
PS 2-Ques 3-20  
SELECT Department, SUM(Salary)  
FROM EMPTABLE  
GROUP BY Department;  
  
PS 2-Ques 3-21  
SELECT Empid  
FROM EMPTABLE  
WHERE Empid != 1002;  
  
PS 2-Ques 3-22  
SELECT \*  
FROM EMPTABLE  
WHERE Name REGEXP '^A[:word]\*';  
  
PS 2-Ques 3-23  
SELECT \*  
FROM EMPTABLE  
WHERE DOB < DATE(STR\_TO\_DATE('01-jan-91', '%d-%b-%y'));  
  
PS 2-Ques 3-24  
SELECT Name  
FROM EMPTABLE  
WHERE Salary BETWEEN 20000 AND 40000;  
  
PS 2-Ques 3-25  
SELECT \*  
FROM EMPTABLE  
WHERE Salary > 20000;  
  
PS 2-Ques 3-26  
SELECT \*  
FROM EMPTABLE  
WHERE Salary > 20000  
 AND Department = 'ACC';  
  
PS 2-Ques 3-27  
SELECT \*  
FROM EMPTABLE  
WHERE Salary > 20000;  
  
PS 2-Ques 3-28  
SELECT Name, Salary, Department  
FROM EMPTABLE  
WHERE (Department, Salary) IN (SELECT Department, MIN(Salary)  
 FROM EMPTABLE  
 GROUP BY Department);  
  
PS 2-Ques 3-29  
SELECT Department, COUNT(\*)  
FROM EMPTABLE  
WHERE Sex = 'M'  
GROUP BY Department;  
  
PS 2-Ques 3-30  
SELECT Department, MIN(Salary), MAX(Salary), SUM(Salary), AVG(Salary)  
FROM EMPTABLE  
GROUP BY Department;  
  
PS 2-Ques 3-31  
SELECT TIMESTAMPDIFF(DAY, DOJ, CURRENT\_TIMESTAMP)  
FROM EMPTABLE;  
  
PS 2-Ques 3-32  
SELECT TIMESTAMPDIFF(YEAR, DOJ, CURRENT\_TIMESTAMP)  
FROM EMPTABLE;  
  
PS 2-Ques 3-33  
SELECT NAME, TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) AS 'AGE'  
FROM EMPTABLE;  
  
PS 2-Ques 3-34  
SELECT NAME  
FROM EMPTABLE  
WHERE DOB = (SELECT MIN(DOB) FROM EMPTABLE);  
  
PS 2-Ques 3-35  
SELECT TIMESTAMPDIFF(YEAR, DOb, CURRENT\_TIMESTAMP) AS 'AGE'  
FROM EMPTABLE  
WHERE DOB = (SELECT MIN(DOB) FROM EMPTABLE);  
  
PS 2-Ques 3-36  
SELECT Name, City  
FROM EMPTABLE  
ORDER BY Name, City;  
  
PS 2-Ques 3-37  
SELECT Name, DOB  
FROM EMPTABLE  
WHERE MONTH(DOB) = '01';  
  
PS 2-Ques 3-38  
SELECT Department, COUNT(\*)  
FROM EMPTABLE  
GROUP BY Department;  
  
PS 2-Ques 3-39  
SELECT Sex, AVG(TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP))  
FROM EMPTABLE  
GROUP BY Sex;  
  
PS 2-Ques 3-40  
SELECT Name, DOB  
FROM EMPTABLE  
WHERE MONTH(DOB) = MONTH(CURDATE());  
  
PS 2-Ques 3-41  
SELECT AVG(Salary)  
FROM EMPTABLE;  
  
PS 2-Ques 3-42  
SELECT Department, AVG(Salary)  
FROM EMPTABLE  
GROUP BY Department;  
  
PS 2-Ques 3-43 Repeated  
SELECT Department, SUM(Salary)  
FROM EMPTABLE  
GROUP BY Department;  
  
PS 2-Ques 3-44  
SELECT COUNT(\*)  
FROM EMPTABLE  
WHERE Salary > 30000;  
  
PS 2-Ques 3-45  
SELECT MAX(Salary)  
FROM EMPTABLE;  
  
PS 2-Ques 3-46  
SELECT Department, MAX(Salary)  
FROM EMPTABLE  
GROUP BY Department;  
  
PS 2-Ques 3-47  
SELECT COUNT(\*)  
FROM EMPTABLE  
WHERE City = 'Coimbatore'  
 AND Sex = 'F';  
  
PS 2-Ques 3-48  
SELECT \*  
FROM EMPTABLE  
WHERE MONTH(DOB) NOT IN (3, 10);  
  
PS 2-Ques 3-49  
SELECT Department, COUNT(\*) AS 'Female Employees'  
FROM EMPTABLE  
WHERE Sex = 'F'  
GROUP BY Department;  
  
PS 2-Ques 3-50  
SELECT Name, City, DOB  
FROM EMPTABLE;  
  
PS 2-Ques 3-51  
SELECT MAX(Salary) - MIN(Salary)  
FROM EMPTABLE;  
  
PS 2-Ques 3-52  
SELECT MAX(Department)  
FROM EMPTABLE;  
  
PS 2-Ques 3-53  
SELECT Department  
FROM EMPTABLE  
GROUP BY Department  
ORDER BY COUNT(\*) DESC  
LIMIT 1;  
  
PS 2-Ques 3-54  
SELECT Name  
FROM EMPTABLE  
WHERE DOB = (SELECT DOB FROM EMPTABLE WHERE YEAR(DOB) = 1990 AND Sex = 'M' ORDER BY DOB LIMIT 1);  
  
PS 2-Ques 3-55  
SELECT DOB FROM EMPTABLE WHERE YEAR(DOB) = 1990 AND Sex = 'F' ORDER BY DOB DESC LIMIT 1;  
  
PS 2-Ques 3-56  
SELECT Name  
FROM EMPTABLE  
WHERE TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) < 32;  
  
PS 2-Ques 3-57  
SELECT Name  
FROM EMPTABLE  
WHERE TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) <  
 (SELECT TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) FROM EMPTABLE WHERE Empid = 1007);  
  
PS 2-Ques 3-58  
SELECT YEAR(DOB)  
FROM EMPTABLE  
GROUP BY YEAR(DOB)  
ORDER BY COUNT(DOB) DESC  
LIMIT 1;  
  
PS 2-Ques 3-59  
SELECT MONTH(DOB)  
FROM EMPTABLE  
GROUP BY MONTH(DOB)  
ORDER BY COUNT(DOB) DESC  
LIMIT 1;  
  
PS 2-Ques 3-60  
SELECT Name  
FROM EMPTABLE  
WHERE Sex = 'M'  
 AND Salary < (SELECT AVG(Salary) FROM EMPTABLE WHERE Sex = 'F');  
  
PS 2-Ques 3-61  
SELECT \*  
FROM EMPTABLE  
WHERE Salary IN (SELECT Salary FROM EMPTABLE GROUP BY Salary HAVING COUNT(Salary) > 1);  
  
PS 2-Ques 3-62  
SELECT COUNT(DISTINCT Department)  
FROM EMPTABLE;  
  
PS 2-Ques 3-63 ? qn doubtful  
SELECT Name  
FROM EMPTABLE  
WHERE LENGTH(Name) > 5;  
  
PS 2-Ques 3-64  
SELECT Name  
FROM EMPTABLE  
WHERE Name LIKE '%e%';  
  
PS 2-Ques 3-65  
SELECT \*  
FROM EMPTABLE  
WHERE City = 'Trichi'  
 AND Department IN  
 (SELECT Department FROM EMPTABLE WHERE City = 'Trichi' GROUP BY Department HAVING COUNT(Department) = 1);  
  
PS 2-Ques 3-66  
SELECT \*  
FROM EMPTABLE  
ORDER BY City;  
  
PS 2-Ques 3-67  
SELECT City, COUNT(\*)  
FROM EMPTABLE  
GROUP BY City;  
  
PS 2-Ques 3-68  
SELECT \*  
FROM EMPTABLE  
WHERE (City, Salary) IN  
 (SELECT City, Salary FROM EMPTABLE GROUP BY City, Salary HAVING COUNT(Salary) > 1 AND COUNT(City) > 1);  
  
PS 2-Ques 3-69  
SELECT DISTINCT Department  
FROM EMPTABLE  
WHERE Department NOT IN (SELECT DISTINCT Department FROM EMPTABLE WHERE City = 'Trichi');  
  
PS 2-Ques 3-70  
SELECT \*  
FROM EMPTABLE  
WHERE Salary IN  
 (SELECT Salary  
 FROM EMPTABLE  
 GROUP BY Salary  
 HAVING COUNT(DISTINCT (Department)) > 1  
 AND COUNT(Department) = COUNT(DISTINCT (Department)));  
  
PS 2-Ques 3-71  
SELECT \*  
FROM EMPTABLE  
WHERE Sex = 'F'  
 AND Salary IN (SELECT Salary FROM EMPTABLE GROUP BY Salary HAVING COUNT(Salary) > 1);  
  
PS 2-Ques 3-72  
ALTER TABLE EMPTABLE  
 MODIFY COLUMN Name VARCHAR(15) NOT NULL;  
  
PS 2-Ques 3-73  
ALTER TABLE EMPTABLE  
 ADD COLUMN Age NUMERIC(3);  
  
PS 2-Ques 3-74  
UPDATE EMPTABLE SET Age = TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP);  
  
PS 2-Ques 3-75  
ALTER TABLE EMPTABLE  
 CHANGE DOB DateOfBirth DATE NOT NULL;  
  
PS 2-Ques 3-76  
ALTER TABLE EMPTABLE  
 DROP COLUMN Age;  
  
PS 2-Ques 3-77  
SELECT Name, ' of ', Department, ' department comes from ', City  
FROM EMPTABLE;  
  
PS 2-Ques 3-78  
# SELECT Name FROM EMPTABLE WHERE dept = ‘ACC’ ORDER BY 1 DESC; #dept dosent exist  
SELECT Name  
FROM EMPTABLE  
WHERE Department = 'ACC'  
ORDER BY 1 DESC;  
  
  
PS 2-Ques 3-79  
ALTER TABLE EMPTABLE  
 MODIFY COLUMN DOJ DATE;  
  
PS 2-Ques 3-80  
SELECT UPPER(Name), UPPER(City)  
FROM EMPTABLE;  
  
PS 2-Ques 3-81  
SELECT MONTH(DateOfBirth)  
FROM EMPTABLE  
GROUP BY MONTH(DateOfBirth)  
ORDER BY COUNT(DateOfBirth) DESC  
LIMIT 1;  
  
  
PS 2-Ques 3-83  
SELECT Name  
FROM EMPTABLE  
WHERE Sex = 'F'  
 AND Salary > (SELECT MAX(Salary) FROM EMPTABLE WHERE Sex = 'M');  
  
PS 2-Ques 3-84  
INSERT INTO EMPTABLE VALUE (1001, 'Anish', 'Chennai', STR\_TO\_DATE('21-apr-1966', '%d-%b-%Y'), 'M',  
 STR\_TO\_DATE('10-jun-1986', '%d-%b-%Y'), 17000, 'ACC');  
  
PS 2-Ques 3-85  
DELETE  
FROM EMPTABLE  
WHERE Name = 'Engela';

FINAL EMPTABLE:

