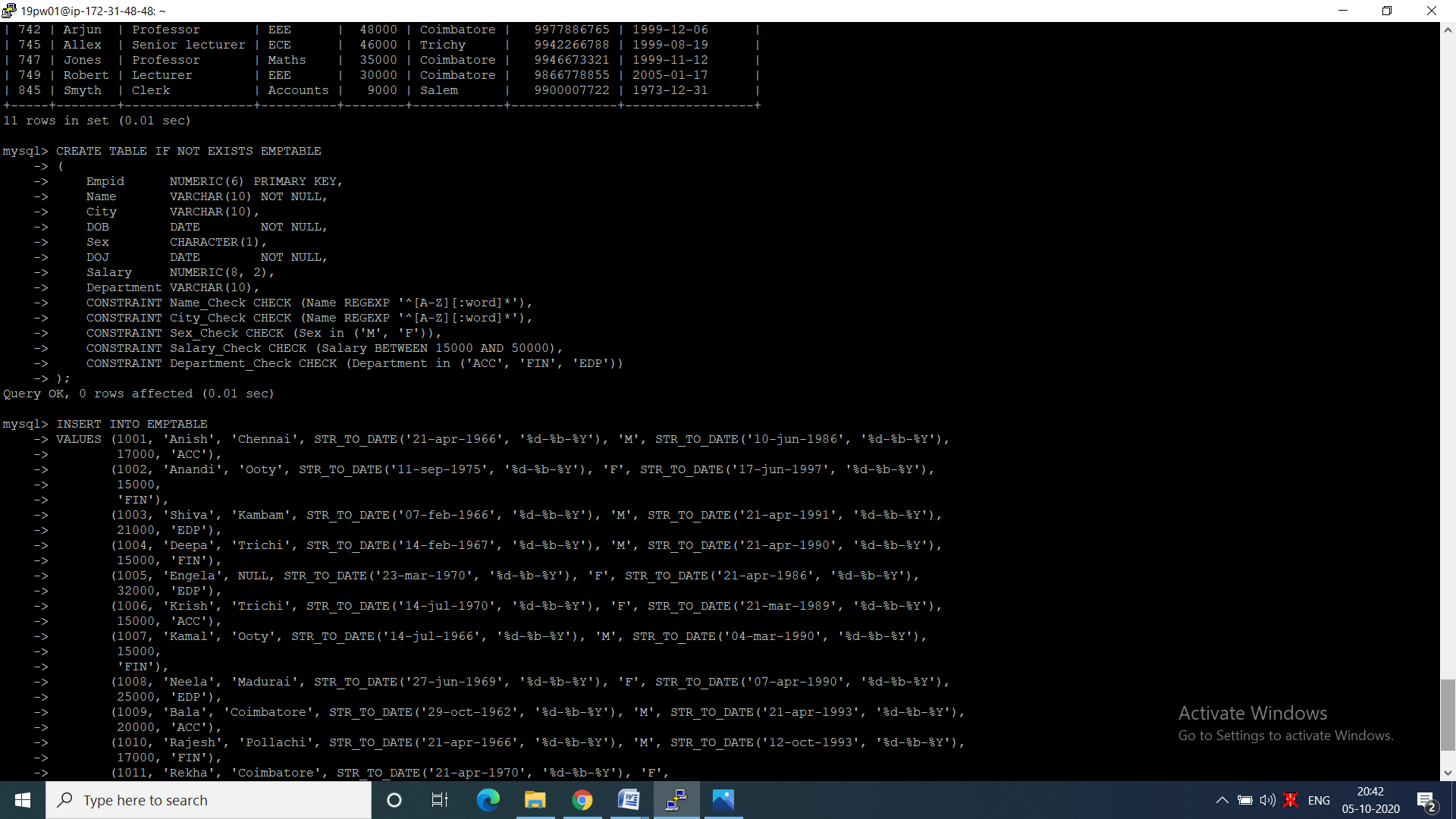
1.)

|  |
| --- |
| 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][:word]\*'), |
| CONSTRAINT City\_Check CHECK (Name REGEXP '^[A-Z][:word]\*'), |
| 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')) |

);



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');  Screenshot (49).png  3.)  1.)SELECT \* FROM EMPTABLE;  Screenshot (50).png |
| 2.)  SELECT Empid, Name, City, Salary |
| FROM EMPTABLE;  Screenshot (51).png |

3.)

|  |  |
| --- | --- |
|  | SELECT Empid |
|  | FROM EMPTABLE |
|  | WHERE Name = 'Bala';  Screenshot (52).png |
|  |  |
|  | 4.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE Sex = 'M';  Screenshot (53).png |
|  |  |
|  | 5.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE City = 'Coimbatore';  Screenshot (54).png |
|  |  |
|  | 6.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE City IN ('Coimbatore', 'Trichi', 'Chennai');  Screenshot (54).png |
|  |  |
|  | 7.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE City IS NULL;  Screenshot (55).png |
|  |  |
|  | 8.) |
|  | SELECT DISTINCT City//distinct=don’t display duplicates. |
|  | FROM EMPTABLE;  Screenshot (56).png |
|  |  |
|  | 9.) |
|  | SELECT Empid, Salary \* 2 |
|  | FROM EMPTABLE;  Screenshot (57).png |
|  |  |
|  | 10.) |
|  | SELECT Name, City |
|  | FROM EMPTABLE |
|  | WHERE Salary > 50000;  Screenshot (58).png |
|  |  |
|  | 11.) |
|  | SELECT Empid, Name, Salary \* 1.05 AS 'Increased Salary' |
|  | FROM EMPTABLE;  Screenshot (59).png |
|  |  |
|  | 12.) |
|  | SELECT Empid, Name, Salary \* 1.05 AS 'Increased Salary' |
|  | FROM EMPTABLE |
|  | ORDER BY `Increased Salary` DESC;  Screenshot (60).png |
|  |  |
|  | 13.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | ORDER BY Name, Salary DESC;  Screenshot (61).png |
|  |  |
|  | 14.) |
|  | SELECT COUNT(\*) |
|  | FROM EMPTABLE;  Screenshot (62).png |
|  |  |
|  | 15.) |
|  | SELECT COUNT(DISTINCT Department) |
|  | FROM EMPTABLE;  Screenshot (63).png |
|  |  |
|  | 16.) |
|  | SELECT COUNT(\*) |
|  | FROM EMPTABLE |
|  | WHERE Department = 'FIN';  Screenshot (66).png |
|  |  |
|  | 17.) |
|  | SELECT COUNT(\*) |
|  | FROM EMPTABLE |
|  | WHERE Sex = 'M';  Screenshot (66).png |
|  |  |
|  | 18.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE Salary = (SELECT MAX(Salary) FROM EMPTABLE);  Screenshot (67).png |
|  |  |
|  | 19,) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE Salary = (SELECT MIN(Salary) FROM EMPTABLE);  Screenshot (67).png |
|  |  |
|  | 20.) |
|  | SELECT Department, SUM(Salary) |
|  | FROM EMPTABLE |
|  | GROUP BY Department;  Screenshot (67).png |
|  |  |
|  | 21.) |
|  | SELECT Empid |
|  | FROM EMPTABLE |
|  | WHERE Empid != 1002;  Screenshot (68).png |
|  |  |
|  | 22.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE Name REGEXP '^A[:word]\*';  Screenshot (69).png |
|  |  |
|  | 23.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE DOB < DATE(STR\_TO\_DATE('01-jan-91', '%d-%b-%y'));  Screenshot (69).png |
|  |  |
|  | 24.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE Salary BETWEEN 20000 AND 40000;  Screenshot (70).png |
|  |  |
|  | 25.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE Salary > 20000;  Screenshot (70).png |
|  |  |
|  | 26.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE Salary > 20000 |
|  | AND Department = 'ACC';  Screenshot (162).png |
|  |  |
|  | 27.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE Salary > 20000 ORDER BY Department;  Screenshot (71).png |
|  |  |
|  | 28.) |
|  | SELECT Name, Salary, Department |
|  | FROM EMPTABLE |
|  | WHERE (Department, Salary) IN (SELECT Department, MIN(Salary) |
|  | FROM EMPTABLE |
|  | GROUP BY Department);  Screenshot (71).png |
|  |  |
|  | 29.) |
|  | SELECT Department, COUNT(\*) |
|  | FROM EMPTABLE |
|  | WHERE Sex = 'M' |
|  | GROUP BY Department;  Screenshot (72).png |
|  |  |
|  | 30.) |
|  | SELECT Department, MIN(Salary), MAX(Salary), SUM(Salary), AVG(Salary) |
|  | FROM EMPTABLE |
|  | GROUP BY Department;  Screenshot (73).png |
|  |  |
|  | 31.) |
|  | SELECT TIMESTAMPDIFF(DAY, DOJ, CURRENT\_TIMESTAMP) |
|  | FROM EMPTABLE;  Screenshot (73).png |
|  |  |
|  | 32.) |
|  | SELECT TIMESTAMPDIFF(YEAR, DOJ, CURRENT\_TIMESTAMP) |
|  | FROM EMPTABLE;  Screenshot (74).png |
|  |  |
|  | 33.) |
|  | SELECT NAME, TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) AS 'AGE' |
|  | FROM EMPTABLE;  Screenshot (75).png |
|  |  |
|  | 34.) |
|  | SELECT NAME |
|  | FROM EMPTABLE |
|  | WHERE DOB = (SELECT MIN(DOB) FROM EMPTABLE);  Screenshot (76).png |
|  |  |
|  | 35.) |
|  | SELECT TIMESTAMPDIFF(YEAR, DOb, CURRENT\_TIMESTAMP) AS 'AGE' |
|  | FROM EMPTABLE |
|  | WHERE DOB = (SELECT MIN(DOB) FROM EMPTABLE);  Screenshot (77).png |
|  |  |
|  | 36.) |
|  | SELECT Name, City |
|  | FROM EMPTABLE |
|  | ORDER BY Name, City;  Screenshot (77).png |
|  |  |
|  | 37.) |
|  | SELECT Name, DOB |
|  | FROM EMPTABLE |
|  | WHERE MONTH(DOB) = '01';  Screenshot (78).png |
|  |  |
|  | 38.) |
|  | SELECT Department, COUNT(\*) |
|  | FROM EMPTABLE |
|  | GROUP BY Department;  Screenshot (79).png |
|  |  |
|  | 39.) |
|  | SELECT Sex, AVG(TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP)) |
|  | FROM EMPTABLE |
|  | GROUP BY Sex;  Screenshot (79).png |
|  |  |
|  | 40.) |
|  | SELECT Name, DOB |
|  | FROM EMPTABLE |
|  | WHERE MONTH(DOB) = MONTH(CURDATE());  Screenshot (79).png |
|  |  |
|  | 41.) |
|  | SELECT AVG(Salary) |
|  | FROM EMPTABLE;  Screenshot (80).png |
|  |  |
|  | 42.) |
|  | SELECT Department, AVG(Salary) |
|  | FROM EMPTABLE |
|  | GROUP BY Department;  Screenshot (80).png |
|  |  |
|  | 43.) |
|  | SELECT Department, SUM(Salary) |
|  | FROM EMPTABLE |
|  | GROUP BY Department;  Screenshot (80).png |
|  |  |
|  | 44.) |
|  | SELECT COUNT(\*) |
|  | FROM EMPTABLE |
|  | WHERE Salary > 30000;  Screenshot (81).png |
|  |  |
|  | 45.) |
|  | SELECT MAX(Salary) |
|  | FROM EMPTABLE;  Screenshot (82).png |
|  |  |
|  | 46.) |
|  | SELECT Department, MAX(Salary) |
|  | FROM EMPTABLE |
|  | GROUP BY Department;  Screenshot (83).png |
|  |  |
|  | 47.) |
|  | SELECT COUNT(\*) |
|  | FROM EMPTABLE |
|  | WHERE City = 'Coimbatore' |
|  | AND Sex = 'F';  Screenshot (84).png |
|  |  |
|  | 48.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE MONTH(DOB) NOT IN (3, 10);  Screenshot (85).png |
|  |  |
|  | 49.) |
|  | SELECT Department, COUNT(\*) AS 'Female Employees' |
|  | FROM EMPTABLE |
|  | WHERE Sex = 'F' |
|  | GROUP BY Department;  Screenshot (86).png |
|  |  |
|  | 50.) |
|  | SELECT Name, City, DOB |
|  | FROM EMPTABLE;  Screenshot (87).png |
|  |  |
|  | 51.) |
|  | SELECT MAX(Salary) - MIN(Salary) |
|  | FROM EMPTABLE;  Screenshot (88).png |
|  |  |
|  | 52.) |
|  | SELECT Department |
|  | FROM EMPTABLE  GROUP BY Department  ORDER BY COUNT(Department) DESC  LIMIT 1;  52.png |
|  |  |
|  | 53.) |
|  | SELECT Department |
|  | FROM EMPTABLE |
|  | GROUP BY Department |
|  | ORDER BY COUNT(\*) DESC |
|  | LIMIT 1;  Screenshot (90).png |
|  |  |
|  | 54.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE DOB = (SELECT DOB FROM EMPTABLE WHERE YEAR(DOB) = 1990 AND Sex = 'M' ORDER BY DOB DESC LIMIT 1);  Screenshot (91).png |
|  |  |
|  | 55.) |
|  | SELECT DOB FROM EMPTABLE WHERE YEAR(DOB) = 1990 AND Sex = 'F' ORDER BY DOB LIMIT 1;  Screenshot (92).png |
|  |  |
|  | 56.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) < 32;  Screenshot (92).png |
|  |  |
|  | 57.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) < |
|  | (SELECT TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP) FROM EMPTABLE WHERE Empid = 1007);  Screenshot (95).png |
|  |  |
|  | 58.) |
|  | SELECT YEAR(DOB) |
|  | FROM EMPTABLE |
|  | GROUP BY YEAR(DOB) |
|  | ORDER BY COUNT(DOB) DESC |
|  | LIMIT 1;  Screenshot (95).png |
|  |  |
|  | 59.) |
|  | SELECT MONTH(DOB) |
|  | FROM EMPTABLE |
|  | GROUP BY MONTH(DOB) |
|  | ORDER BY COUNT(DOB) DESC |
|  | LIMIT 1;  Screenshot (96).png |
|  |  |
|  | 60.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE Sex = 'M' |
|  | AND Salary < (SELECT AVG(Salary) FROM EMPTABLE WHERE Sex = 'F');  Screenshot (96).png |
|  |  |
|  | 61.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE Salary IN (SELECT Salary FROM EMPTABLE GROUP BY Salary HAVING COUNT(Salary) > 1);  Screenshot (163).png |
|  |  |
|  | 62.) |
|  | SELECT COUNT(DISTINCT Department) |
|  | FROM EMPTABLE;  Screenshot (97).png |
|  |  |
|  | 63.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE LENGTH(Name) <= 5;  Screenshot (97).png |
|  |  |
|  | 64.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE Name LIKE '%e%';  Screenshot (98).png |
|  |  |
|  | 65.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE City = 'Trichi' |
|  | AND Department IN |
|  | (SELECT Department FROM EMPTABLE WHERE City = 'Trichi' GROUP BY Department HAVING COUNT(Department) = 1);  Screenshot (98).png |
|  |  |
|  | 66.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | ORDER BY City;  Screenshot (99).png |
|  |  |
|  | 67.) |
|  | SELECT City, COUNT(\*) |
|  | FROM EMPTABLE |
|  | GROUP BY City;  Screenshot (100).png |
|  |  |
|  | 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);  Screenshot (101).png |
|  |  |
|  | 69.) |
|  | SELECT DISTINCT Department |
|  | FROM EMPTABLE |
|  | WHERE Department NOT IN (SELECT DISTINCT Department FROM EMPTABLE WHERE City = 'Trichi');  Screenshot (102).png |
|  |  |
|  | 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)));  Screenshot (103).png |
|  | 71.) |
|  | SELECT \* |
|  | FROM EMPTABLE |
|  | WHERE Sex = 'F' |
|  | AND Salary IN (SELECT Salary FROM EMPTABLE WHERE Sex=’F’ GROUP BY Salary HAVING COUNT(Salary) > 1); |
|  |  |
|  | 72.) |
|  | ALTER TABLE EMPTABLE |
|  | MODIFY COLUMN Name VARCHAR(15) NOT NULL;  Screenshot (106).png |
|  |  |
|  | # QN 3-73 |
|  | ALTER TABLE EMPTABLE |
|  | ADD COLUMN Age NUMERIC(3);  Screenshot (106).png |
|  |  |
|  | 74.) |
|  | UPDATE EMPTABLE |
|  | SET Age = TIMESTAMPDIFF(YEAR, DOB, CURRENT\_TIMESTAMP);  Screenshot (106).png |
|  |  |
|  | 75.) |
|  | ALTER TABLE EMPTABLE |
|  | CHANGE DOB DateOfBirth DATE NOT NULL;  Screenshot (106).png |
|  |  |
|  | 76.) |
|  | ALTER TABLE EMPTABLE |
|  | DROP COLUMN Age;  Screenshot (106).png |
|  |  |
|  | 77.) |
|  | SELECT CONCAT(Name, ' of ', Department, ' department comes from ', City) |
|  | FROM EMPTABLE;  Screenshot (164).png |
|  |  |
|  | 78.) |
|  | SELECT Name FROM EMPTABLE WHERE Department = ‘ACC’ ORDER BY 1 DESC; #Department and not dept. |
|  | Screenshot (107).png |
|  |  |
|  | 79.) |
|  | ALTER TABLE EMPTABLE |
|  | MODIFY COLUMN DOJ DATE;  Screenshot (107).png |
|  |  |
|  | 80.) |
|  | SELECT UPPER(Name), UPPER(City) |
|  | FROM EMPTABLE;  Screenshot (108).png |
|  |  |
|  | 81.) |
|  | SELECT MONTH(DateOfBirth) |
|  | FROM EMPTABLE |
|  | GROUP BY MONTH(DateOfBirth) |
|  | ORDER BY COUNT(DateOfBirth) DESC |
|  | LIMIT 1; |
|  | Screenshot (109).png |
|  | 82.) |
|  | Refer Question 3.60.) |
|  |  |
|  | 83.) |
|  | SELECT Name |
|  | FROM EMPTABLE |
|  | WHERE Sex = 'F' |
|  | AND Salary > (SELECT MAX(Salary) FROM EMPTABLE WHERE Sex = 'M');  Screenshot (110).png |
|  |  |
|  |  |
|  | INSERT INTO EMPTABLE VALUE (1002, 'shiva', 'kambam', STR\_TO\_DATE('07-feb-1966', '%d-%b-%Y'), 'M', |
|  | STR\_TO\_DATE('21-apr-1991', '%d-%b-%Y'), 21000, 'EDP');  Screenshot (111).png |
|  |  |
|  | 85.) |
|  | DELETE |
|  | FROM EMPTABLE |
|  | WHERE Name = 'Engela';  Screenshot (111).png |