New\_Assignment

Create table employee\_table(

employee\_id int primary key,

first\_name varchar(100),

last\_name varchar(100),

salary money,

joining\_date datetime,

Department varchar(100))

insert into employee\_table values(1,'Anika','Arora',100000,'2020-02-14 9:00:00','HR'),(2,'Veena','Verma',80000,'2011-06-15 9:00:00','Admin'),(3,'Vishal','Singhal',300000,'2020-06-16 9:00:00','HR'),

(4,'Sushanth','Singh',500000,'2020-02-17 9:00:00','Admin'),(5,'Bhupal','Bhati',500000,'2011-06-18 9:00:00','Admin'),(6,'Dheeraj','Diwan',200000,'2011-06-19 9:00:00','Account'),(7,'karan','Kumar',75000,'2020-01-14 9:00:00','Account'),

(8,'Chandrika','Chauhan',90000,'2011-04-15 9:00:00','Admin')

create table employee\_Bonus

(

emp\_ref\_id int references employee\_table(employee\_id)

Bonus\_account money,

Bonus\_date datetime )

insert into employee\_Bonus values(1,5000,'2020-02-16 0:00:00'),(2,3000,'2011-06-16 0:00:00'),(3,4000,'2020-02-16 0:00:00'),(1,4500,'2020-02-16 0:00:00'),

(2,3500,'2011-06-16 0:00:00')

create table employee\_title(

Emp\_ref\_id int references employee\_table(employee\_id),

employee\_title varchar(100),

Affective\_date datetime)

insert into employee\_title values(1,'manager','2016-02-20 0:00:00'),(2,'Executive','2016-06-11 0:00:00'),(8,'Executive','2016-02-20 0:00:00'),

(5,'manager','2016-02-20 0:00:00'),(4,'asst manager','2016-02-20 0:00:00'),(7,'Executive','2016-02-20 0:00:00'),(6,'lead','2016-02-20 0:00:00'),

(3,'Lead','2016-02-20 0:00:00')

--1

SELECT first\_name AS Employee\_name FROM employee\_table;

--2

SELECT UPPER(last\_name) FROM employee\_table;

--3

SELECT DISTINCT Department FROM employee\_table;

--4

SELECT LEFT(last\_name, 3) FROM employee\_table;

--5

SELECT DISTINCT Department, LEN(Department) FROM employee\_table;

--6

SELECT CONCAT(first\_name, ' ', last\_name) AS FULL\_NAME FROM employee\_table;

--7

SELECT \* FROM employee\_table ORDER BY first\_name ASC;

--8

SELECT \* FROM employee\_table ORDER BY first\_name ASC, Department DESC;

--9

SELECT \* FROM employee\_table WHERE first\_name IN ('Veena', 'Karan');

--10

SELECT \* FROM employee\_table WHERE Department = 'Admin';

--11

SELECT \* FROM employee\_table WHERE first\_name LIKE '%V%';

--12

SELECT \* FROM employee\_table WHERE salary BETWEEN 100000 AND 500000;

--13

SELECT \* FROM employee\_table WHERE MONTH(joining\_date) = 2 AND YEAR(joining\_date) = 2020;

--14

SELECT first\_name, last\_name FROM employee\_table WHERE salary BETWEEN 50000 AND 100000;

--15

SELECT Department, COUNT(\*) AS Employee\_Count

FROM employee\_table

GROUP BY Department

ORDER BY Employee\_Count DESC;

--16

SELECT \*

FROM employee\_table

WHERE employee\_id IN (SELECT Emp\_ref\_id FROM employee\_title WHERE employee\_title = 'manager');

--17

SELECT first\_name, last\_name, COUNT(\*) AS duplicate\_count

FROM employee\_table

GROUP BY first\_name, last\_name

HAVING COUNT(\*) > 1;

SELECT emp\_ref\_id, Bonus\_date, COUNT(\*) AS duplicate\_count

FROM employee\_Bonus

GROUP BY emp\_ref\_id, Bonus\_date

HAVING COUNT(\*) > 1;

SELECT emp\_ref\_id, Affective\_date, employee\_title, COUNT(\*) AS duplicate\_count

FROM employee\_title

GROUP BY emp\_ref\_id,Affective\_date, employee\_title

HAVING COUNT(\*) > 1;

--18

SELECT \*

FROM (

SELECT \*, ROW\_NUMBER() OVER (ORDER BY employee\_id) AS row\_num

FROM employee\_table

) AS subquery

WHERE row\_num % 2 = 1;

--19

CREATE TABLE employee\_table\_clone AS

SELECT \* FROM employee\_table;

--20

SELECT TOP 2 salary FROM employee\_table ORDER BY salary DESC;

--21

SELECT salary, COUNT(\*) AS employee\_count

FROM employee\_table

GROUP BY salary

HAVING COUNT(\*) > 1;

--22

SELECT MAX(salary) AS second\_highest\_salary

FROM employee\_table

WHERE salary < (SELECT MAX(salary) FROM employee\_table);

--23

SELECT \*

FROM employee\_table

LIMIT (SELECT COUNT(\*) / 2 FROM employee\_table);

--24

SELECT Department, COUNT(\*) AS employee\_count

FROM employee\_table

GROUP BY Department

HAVING COUNT(\*) < 4;

--25

SELECT Department, COUNT(\*) AS employee\_count

FROM employee\_table

GROUP BY Department;

--26

SELECT et.Department, et.first\_name, et.last\_name, et.salary

FROM employee\_table et

WHERE et.salary = (

SELECT MAX(et2.salary)

FROM employee\_table et2

WHERE et2.Department = et.Department

);

--27

SELECT first\_name, last\_name

FROM employee\_table

WHERE salary = (SELECT MAX(salary) FROM employee\_table);

--28

SELECT Department, AVG(salary) AS average\_salary

FROM employee\_table

GROUP BY Department;

--29

SELECT et.first\_name, et.last\_name

FROM employee\_table et

JOIN employee\_Bonus eb ON et.employee\_id = eb.emp\_ref\_id

WHERE Bonus\_account = (SELECT MAX(Bonus\_account) FROM employee\_Bonus);

--30

SELECT et.first\_name, etl.employee\_title

FROM employee\_table et

JOIN employee\_title etl ON et.employee\_id = etl.Emp\_ref\_id;