1.CREATE TABLE TEST\_CUSTOMERS(

CLIENT\_NO INT PRIMARY KEY,

CLIENT\_NAME VARCHAR(15),

PHONENUMBER BIGINT(10),

PRICE DECIMAL(10,2)

);

1b.INSERT INTO TEST\_CUSTOMERS VALUES(1,'MAHESH',9996667778,0.1);

INSERT INTO TEST\_CUSTOMERS VALUES(2,'RAMESH',7789783787,2);

INSERT INTO TEST\_CUSTOMERS VALUES(3,'SURESH',123456789,456.123);

INSERT INTO TEST\_CUSTOMERS VALUES(4,'MANIDHAR',1235689211,02.02);

INSERT INTO TEST\_CUSTOMERS VALUES(5,'RAVI',9745623554,33.12);

2.DELETE

FROM TEST\_CUSTOMERS

WHERE PRICE <= 2.22

LIMIT 5;

3.CREATE TABLE CUSTOMERS3(

CUSTOMER\_ID INT(2) PRIMARY KEY,

CUSTOMER\_NAME VARCHAR(10),

CITY VARCHAR(10),

COUNTRY VARCHAR(10),

SALARY DECIMAL(10,2),

COUNTRY\_CODE VARCHAR(5)

);

INSERT INTO CUSTOMERS3 VALUES(7,'JOHN','NEWYORK','USA',40000,'AME');

INSERT INTO CUSTOMERS3 VALUES(8,'AMARAN','BERLIN','GERMANY',60000,'GER');

INSERT INTO CUSTOMERS3 VALUES(9,'RAHUL','INDIA','MUMBAI',50000,'IND');

INSERT INTO CUSTOMERS3 VALUES(1,'SHAHUL','UK','LONDON',30000,'LON');

INSERT INTO CUSTOMERS3 VALUES(4,'SOHEL','TOKYO','JAPAN',60000,'JPN');

INSERT INTO CUSTOMERS3 VALUES(3,'JOHN','US','USA',40000,'AME');

SELECT COUNT(\*)

FROM CUSTOMERS3

WHERE CITY="US";

4.SELECT\*

FROM CUSTOMERS3

WHERE COUNTRY\_CODE ='JPN';

5.SELECT CUSTOMER\_NAME, REPLACE(CUSTOMER\_NAME,'A','S')

FROM CUSTOMERS3;

6.CREATE TABLE CELEBRATIONS(

CEL\_ID INT PRIMARY KEY,

CEL\_NAME VARCHAR(10),

CEL\_START\_TIME DATETIME,

CEL\_END\_TIME DATETIME

);

INSERT INTO CELEBRATIONS VALUES(1,'BIRTHDAY','2024-12-01 06:22:01','2024-12-01 10:22:01');

INSERT INTO CELEBRATIONS VALUES(2,'MARRIAGE','2024-12-01 06:22:01','2024-12-01 08:00:00');

INSERT INTO CELEBRATIONS VALUES(5,'FUNCTION','2024-01-10 10:09:09','2024-01-10 10:09:09');

SELECT TIME(CEL\_START\_TIME)

FROM CELEBRATIONS;

7.SELECT Sal

FROM (

SELECT Sal, ROW\_NUMBER() OVER (ORDER BY Sal DESC) AS RowNum

FROM EMP

) AS RankedSalaries

WHERE RowNum = 2;

8.CREATE TABLE STUDENTS(

STD\_ID INT(2) PRIMARY KEY,

STD\_NAME VARCHAR(10),

STD\_MARKS VARCHAR(10)

);

CREATE TABLE GRADES(

GRADE INT(2) PRIMARY KEY,

MIN\_MARK INT(2),

MAX\_MARK INT(2)

);

INSERT INTO STUDENTS VALUES(1,'MARIA',90);

INSERT INTO STUDENTS VALUES(2,'JANE',75);

INSERT INTO STUDENTS VALUES(3,'JULIA',80);

INSERT INTO STUDENTS VALUES(4,'BOB',70);

INSERT INTO GRADES VALUES(10,85,100);

INSERT INTO GRADES VALUES(9,70,84);

INSERT INTO GRADES VALUES(8,50,69);

SELECT S.STD\_NAME, S.STD\_MARKS, G.GRADE

FROM STUDENTS S

JOIN GRADES G ON S.STD\_MARKS BETWEEN G.MIN\_MARK AND G.MAX\_MARK;

SELECT

CASE

WHEN G.GRADE >= 8 THEN S.STD\_NAME

ELSE NULL

END AS STD\_NAME,

G.GRADE,

S.STD\_MARKS

FROM STUDENTS S

JOIN GRADES G ON S.STD\_MARKS BETWEEN G.MIN\_MARK AND G.MAX\_MARK

ORDER BY G.GRADE DESC, STD\_NAME ASC;

SELECT\* FROM EMP;

SELECT\* FROM DEPT;

9.CREATE TABLE EMPLOYEES1(

EMPLOYEE\_ID INT(2) PRIMARY KEY,

EMPLOYEE\_NAME VARCHAR(10),

DEPARTMENT VARCHAR(5),

HIRE\_DATE DATE

);

INSERT INTO EMPLOYEES1 VALUES(1,'ALICE','HR','2020-01-15');

INSERT INTO EMPLOYEES1 VALUES(2,'BOB','IT','2021-03-10');

INSERT INTO EMPLOYEES1 VALUES(3,'CAROL','IT','2020-11-20');

INSERT INTO EMPLOYEES1 VALUES(4,'DAVID','HR','2020-11-20');

INSERT INTO EMPLOYEES1 VALUES(5,'EVE','HR','2022=05-25');

CREATE TABLE SALARIES(

EMPLOYEE\_ID INT(2) PRIMARY KEY,

SALARY DECIMAL(10,2),

SALARY\_DATE DATE

);

INSERT INTO SALARIES VALUES(1,50000,'2024-01-01');

INSERT INTO SALARIES VALUES(2,60000,'2024-01-01');

INSERT INTO SALARIES VALUES(3,65000,'2024-01-01');

INSERT INTO SALARIES VALUES(4,55000,'2024-01-01');

INSERT INTO SALARIES VALUES(5,70000,'2024-01-01');

SELECT E.EMPLOYEE\_NAME,E.DEPARTMENT,S.SALARY,

AVG(S.SALARY) OVER(PARTITION BY E.DEPARTMENT) AS AVG\_SAL,

MAX(S.SALARY) OVER(PARTITION BY E.DEPARTMENT) AS MAX\_SAL,

RANK() OVER(PARTITION BY E.DEPARTMENT ORDER BY SALARY DESC) AS SAL\_RANK

FROM EMPLOYEES1 E JOIN SALARIES S ON E.EMPLOYEE\_ID = S.EMPLOYEE\_ID

ORDER BY E.DEPARTMENT;

10.SEQUEL EXECUTION ORDER

1.FROM CLAUSE

2.WHERE CLAUSE

3.GROUP BY CLAUSE

4.HAVING CLAUSE

5.SELECT CLAUSE

6.DISTINCT CLAUSE

7.ORDER BY CLAUSE