**Q1: Create a department table with the following columns: dept\_id (PK), dept\_name**

**(not null), dept\_location.**

SQL> create table dept72(dept\_id int primary key,dept\_name varchar(20) not null,dept\_location varchar(20));

Table created.

**Q2: Write a SQL query to create an employee table with the following columns: emp\_id**

**(PK), emp\_name, emp\_salary (>20k), emp\_join\_date (between June 1998- till**

**date), dept\_id (FK).**

SQL> create table emp72(emp\_id numeric primary key,emp\_name varchar(25),emp\_sal numeric(8,2) check(emp\_sal > 20000),emp\_join\_date DATE check (emp\_join\_date >= DATE '1998-06-01'),dept\_id numeric,foreign key(dept\_id) references dept72(dept\_id));

Table created.

**Q3: Create table support table with s\_id (PK), emp\_id (FK), dept\_id (FK), status**

**(Yes/No).**

SQL> create table support72(s\_id numeric primary key,emp\_id numeric,dept\_id numeric,status varchar(8) check(status IN ('Yes','No')),foreign key(emp\_id)references emp72(emp\_id),foreign key(dept\_id) references dept72(dept\_id));

Table created.

**Q4: Display the schema of the above three tables.**

SQL> desc dept72;

Name Null? Type

----------------------------------------- -------- ----------------------------

DEPT\_ID NOT NULL NUMBER(38)

DEPT\_NAME NOT NULL VARCHAR2(20)

DEPT\_LOCATION VARCHAR2(20)

SQL> desc emp72;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMP\_ID NOT NULL NUMBER(38)

EMP\_NAME VARCHAR2(25)

EMP\_SAL NUMBER(8,2)

EMP\_JOIN\_DATE DATE

DEPT\_ID NUMBER(38)

SQL> desc support72;

Name Null? Type

----------------------------------------- -------- ----------------------------

S\_ID NOT NULL NUMBER(38)

EMP\_ID NUMBER(38)

DEPT\_ID NUMBER(38)

STATUS VARCHAR2(8)

**Q5: Alter the employee table to add a new column emp\_email of type VARCHAR(100).**

SQL> alter table emp72 add emp\_mail varchar(100);

Table altered.

**Q6: Drop the support table if it is no longer required.**

SQL> drop table support72;

Table dropped.

**Q7: Modify the emp\_salary column in the employee table to allow values up to**

**DECIMAL(12, 2).**

SQL> alter table emp72 modify emp\_sal decimal(12,2);

Table altered.

**Q8: Add five suitable records to department table (Let value of dept\_id starts with 101).**

SQL> insert into dept72 values(101,'HR','Tvm');

1 row created.

SQL> insert into dept72 values(102,'Sales','Rosewood');

1 row created.

SQL> insert into dept72 values(103,'Marketing','Nagarcoil');

1 row created.

SQL> insert into dept72 values(104,'Finance','Indevaram');

1 row created.

SQL> insert into dept72 values(105,'IT','Ekm');

1 row created.

SQL> select \* from dept72;

DEPT\_ID DEPT\_NAME DEPT\_LOCATION

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101 HR Tvm

102 Sales Rosewood

103 Marketing Nagarcoil

104 Finance Indevaram

105 IT Ekm

**Q9: Insert the following employee record into the employee table: emp\_id = 1, emp\_name**

**= 'John Doe', emp\_salary = 60000, emp\_join\_date = '15-05-2021', dept\_id**

**= 101.**

SQL> insert into emp72 values(1,'John Doe',60000,To\_date('15-05-2021','DD-MM-YYYY'),101,'john@gmail.com');

1 row created.

**Q10: Insert multiple records of employees into the employee table with emp\_id, emp\_name,**

**emp\_salary, and dept\_id.**

SQL> insert into emp72 values(2,'Merin',80000,To\_date('20-05-2019','DD-MM-YYYY'),102,'merin@gmail.com');

1 row created.

SQL> insert into emp72 values(3,'Sona',40000,To\_date('04-11-2024','DD-MM-YYYY'),103,'sona@gmail.com');

1 row created.

SQL> insert into emp72 values(4,'Sia',55000,To\_date('13-10-2022','DD-MM-YYYY'),104,'sia@gmail.com');

1 row created.

SQL> insert into emp72 values(5,'Derick',100000,To\_date('19-01-2015','DD-MM-YYYY'),105,'derick@gmail.com');

1 row created.

SQL> insert into emp72 values(6,'Megha',35000,To\_date('17-09-2014','DD-MM-YYYY'),101,'megha@gmail.com');

1 row created.

SQL> select \* from emp72;

EMP\_ID EMP\_NAME EMP\_SAL EMP\_JOIN\_ DEPT\_ID EMP\_MAIL

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1 John Doe 60000 15-MAY-21 101 john@gmail.com

6 Megha 35000 17-SEP-14 101 megha@gmail.com

2 Merin 80000 20-MAY-19 102 merin@gmail.com

3 Sona 40000 04-NOV-24 103 sona@gmail.com

4 Sia 55000 13-OCT-22 104 sia@gmail.com

5 Derick 100000 19-JAN-15 105 derick@gmail.com

**Q11: Update the salary of the employee with emp\_id = 1 by increasing it by 10%.**

SQL> update emp72 set emp\_sal=emp\_sal\*1.10 where emp\_id=1;

1 row updated.

**Q12: Delete the record of the employee with emp\_id = 1.**

SQL> delete from emp72 where emp\_id=1;

1 row deleted.

SQL> select \* from emp72;

EMP\_ID EMP\_NAME EMP\_SAL EMP\_JOIN\_ DEPT\_ID EMP\_MAIL

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6 Megha 35000 17-SEP-14 101 megha@gmail.com

2 Merin 80000 20-MAY-19 102 merin@gmail.com

3 Sona 40000 04-NOV-24 103 sona@gmail.com

4 Sia 55000 13-OCT-22 104 sia@gmail.com

5 Derick 100000 19-JAN-15 105 derick@gmail.com

**Q13: Update the emp\_salary of employees in dept\_id = 101 to 10% more if their current**

**salary is less than 50000.**

SQL> update emp72 set emp\_sal = emp\_sal \* 1.10 where dept\_id=101 and emp\_sal<50000;

1 row updated.

SQL> select \* from emp72;

EMP\_ID EMP\_NAME EMP\_SAL EMP\_JOIN\_ DEPT\_ID EMP\_MAIL

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6 Megha 38500 17-SEP-14 101 megha@gmail.com

2 Merin 80000 20-MAY-19 102 merin@gmail.com

3 Sona 40000 04-NOV-24 103 sona@gmail.com

4 Sia 55000 13-OCT-22 104 sia@gmail.com

5 Derick 100000 19-JAN-15 105 derick@gmail.com