Create table department70(dept\_id numeric primary key,dept\_name varchar(20) not null,dept\_location varchar(20));

Create table employee70A(emp\_id numeric primary key,emp\_name varchar(20),emp\_salary numeric(7,2)check(emp\_salary>20000),emp\_join\_date DATE check (emp\_join\_date >= DATE '1998-06-01'),dept\_id numeric,foreign key(dept\_id) references department70(dept\_id));

CREATE TABLE support70 (s\_id NUMERIC PRIMARY KEY,emp\_id NUMERIC,dept\_id NUMERIC,status VARCHAR(5) CHECK (status IN ('yes', 'no')),FOREIGN KEY (emp\_id) REFERENCES employee70A(emp\_id),FOREIGN KEY (dept\_id) REFERENCES department70(dept\_id)

);

DESC department70;

DESC employee70A;

DESC support70;

ALTER table employee70A add emp\_email varchar(100);

DROP table support70;

ALTER table employee70A modify emp\_salary DECIMAL(12,2);

INSERT INTO department70 VALUES (101, 'HR', 'KOCHI');

INSERT INTO department70 VALUES (102, 'Finance', 'KOLLAM');

INSERT INTO department70 VALUES (103, 'IT', 'ERNAKULAM');

INSERT INTO department70 VALUES (104, 'Marketing', 'IDUKKI');

INSERT INTO department70 VALUES (105, 'Sales', 'KTM');

INSERT INTO employee70A VALUES(1,'John Doe',60000,To\_Date('15-05-2025','DD-MM-YYYY'),101,'meg13@gmail.com');

INSERT INTO employee70A VALUES(2,'Ann',80000,To\_Date('20-05-2019','DD-MM-YYYY'),102,'ann@gmail.com');

INSERT INTO employee70A VALUES(3,'Aby',40000,To\_Date('04-11-2024','DD-MM-YYYY'),103,'aby@gmail.com');

INSERT INTO employee70A VALUES(4,'Sara',55000,To\_Date('13-10-2022','DD-MM-YYYY'),104,'sara@gmail.com');

INSERT INTO employee70A VALUES(5,'Emy',80000,To\_Date('19-01-2015','DD-MM-YYYY'),102,'emy@gmail.com');

INSERT INTO employee70A VALUES(6,'Sam',35000,To\_Date('17-01-2024','DD-MM-YYYY'),101,'sam@gmail.com');

UPDATE employee70A SET emp\_salary=emp\_salary\*1.10 WHERE emp\_id=1;

DELETE FROM employee70A WHERE emp\_id=1;

UPDATE employee70A SET emp\_salary=emp\_salary\*1.10 WHERE dept\_id=101 and emp\_salary<50000;

SELECT emp\_id,emp\_name,emp\_salary FROM employee70A;

SELECT emp\_name,emp\_salary,emp\_join\_date FROM employee70A WHERE emp\_salary>50000;

SELECT \* FROM employee70A ORDER BY emp\_salary DESC;

SELECT emp\_name, emp\_salary FROM employee70A WHERE emp\_join\_date > TO\_DATE('01-01-2020', 'DD-MM-YYYY');

SELECT emp\_name FROM employee70A WHERE emp\_name LIKE 'J%';

SELECT emp\_name FROM employee70A WHERE emp\_name LIKE 'A%';

SELECT emp\_name,emp\_salary FROM employee70A WHERE emp\_salary BETWEEN 40000 AND 60000;

SELECT dept\_id, SUM(emp\_salary) AS total\_salary FROM employee70A GROUP BY dept\_id;

SELECT dept\_id, AVG(emp\_salary) AS avg\_salary FROM employee70A GROUP BY dept\_id HAVING AVG(emp\_salary)>60000;

SELECT dept\_id, COUNT(\*) AS num\_employees FROM employee70A WHERE emp\_salary>50000 GROUP BY dept\_id;

SELECT dept\_id, COUNT(\*) AS employee\_count FROM employee70A GROUP BY dept\_id HAVING COUNT(\*) > 3;

**OUTPUT**

SQL> Create table department70(dept\_id numeric primary key,dept\_name varchar(20) not null,dept\_location varchar(20));

Table created.

SQL> Create table employee70A(emp\_id numeric primary key,emp\_name varchar(20),emp\_salary numeric(7,2)check(emp\_salary>20000),emp\_join\_date DATE check (emp\_join\_date >= DATE '1998-06-01'),dept\_id numeric,foreign key(dept\_id) references department70(dept\_id));

Table created.

SQL> CREATE TABLE support70 (s\_id NUMERIC PRIMARY KEY,emp\_id NUMERIC,dept\_id NUMERIC,status VARCHAR(5) CHECK (status IN ('yes', 'no')),FOREIGN KEY (emp\_id) REFERENCES employee70A(emp\_id),FOREIGN KEY (dept\_id) REFERENCES department70(dept\_id)

); 2

Table created.

SQL> DESC department70;

Name Null? Type

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

DEPT\_ID NOT NULL NUMBER(38)

DEPT\_NAME NOT NULL VARCHAR2(20)

DEPT\_LOCATION VARCHAR2(20)

SQL> DESC employee70A;

Name Null? Type

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

EMP\_ID NOT NULL NUMBER(38)

EMP\_NAME VARCHAR2(20)

EMP\_SALARY NUMBER(7,2)

EMP\_JOIN\_DATE DATE

DEPT\_ID NUMBER(38)

SQL> DESC support70;

Name Null? Type

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

S\_ID NOT NULL NUMBER(38)

EMP\_ID NUMBER(38)

DEPT\_ID NUMBER(38)

STATUS VARCHAR2(5)

SQL> ALTER table employee70A add emp\_email varchar(100);

Table altered.

SQL> DROP table support70;

Table dropped.

SQL> ALTER table employee70A modify emp\_salary DECIMAL(12,2);

Table altered.

SQL> INSERT INTO department70 VALUES (101, 'HR', 'KOCHI');

INSERT INTO department70 VALUES (102, 'Finance', 'KOLLAM');

INSERT INTO department70 VALUES (103, 'IT', 'ERNAKULAM');

INSERT INTO department70 VALUES (104, 'Marketing', 'IDUKKI');

INSERT INTO department70 VALUES (105, 'Sales', 'KTM');

1 row created.

SQL>

1 row created.

SQL>

1 row created.

SQL>

1 row created.

SQL> INSERT INTO employee70A VALUES(1,'John Doe',60000,To\_Date('15-05-2025','DD-MM-YYYY'),101,'meg13@gmail.com');

1 row created.

SQL> select \* from employee70A;

EMP\_ID EMP\_NAME EMP\_SALARY EMP\_JOIN\_ DEPT\_ID EMP\_EMAIL

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

1 John Doe 60000 15-MAY-25 101 meg13@gmail.com

2 Ann 80000 20-MAY-19 102 ann@gmail.com

3 Aby 40000 04-NOV-24 103 aby@gmail.com

4 Sara 55000 13-OCT-22 104 sara@gmail.com

5 Emy 65000 19-JAN-15 102 emy@gmail.com

6 Sam 35000 17-JAN-24 101 sam@gmail.com

SQL> select \* from employee70A;

EMP\_ID EMP\_NAME EMP\_SALARY EMP\_JOIN\_ DEPT\_ID EMP\_EMAIL

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

1 John Doe 66000 15-MAY-25 101 meg13@gmail.com

2 Ann 80000 20-MAY-19 102 ann@gmail.com

3 Aby 40000 04-NOV-24 103 aby@gmail.com

4 Sara 55000 13-OCT-22 104 sara@gmail.com

5 Emy 65000 19-JAN-15 102 emy@gmail.com

6 Sam 35000 17-JAN-24 101 sam@gmail.com

SQL> UPDATE employee70A SET emp\_salary=emp\_salary\*1.10 WHERE emp\_id=1;

1 row updated.

SQL> select \* from employee70A;

EMP\_ID EMP\_NAME EMP\_SALARY EMP\_JOIN\_ DEPT\_ID EMP\_EMAIL

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

1 John Doe 66000 15-MAY-25 101 meg13@gmail.com

2 Ann 80000 20-MAY-19 102 ann@gmail.com

3 Aby 40000 04-NOV-24 103 aby@gmail.com

4 Sara 55000 13-OCT-22 104 sara@gmail.com

5 Emy 65000 19-JAN-15 102 emy@gmail.com

6 Sam 35000 17-JAN-24 101 sam@gmail.com

SQL> DELETE FROM employee70A WHERE emp\_id=1;

1 row deleted.

SQL> select \* from employee70A;

EMP\_ID EMP\_NAME EMP\_SALARY EMP\_JOIN\_ DEPT\_ID EMP\_EMAIL

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

2 Ann 80000 20-MAY-19 102 ann@gmail.com

3 Aby 40000 04-NOV-24 103 aby@gmail.com

4 Sara 55000 13-OCT-22 104 sara@gmail.com

5 Emy 65000 19-JAN-15 102 emy@gmail.com

6 Sam 35000 17-JAN-24 101 sam@gmail.com

SQL> UPDATE employee70A SET emp\_salary=emp\_salary\*1.10 WHERE dept\_id=101 and emp\_salary<50000;

1 row updated.

SQL> select \* from employee70A;

EMP\_ID EMP\_NAME EMP\_SALARY EMP\_JOIN\_ DEPT\_ID EMP\_EMAIL

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

2 Ann 80000 20-MAY-19 102 ann@gmail.com

3 Aby 40000 04-NOV-24 103 aby@gmail.com

4 Sara 55000 13-OCT-22 104 sara@gmail.com

5 Emy 65000 19-JAN-15 102 emy@gmail.com

6 Sam 38500 17-JAN-24 101 sam@gmail.com

SQL> SELECT emp\_id,emp\_name,emp\_salary FROM employee70A;

EMP\_ID EMP\_NAME EMP\_SALARY

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

2 Ann 80000

3 Aby 40000

4 Sara 55000

5 Emy 65000

6 Sam 38500

SQL> SELECT emp\_name,emp\_salary,emp\_join\_date FROM employee70A WHERE emp\_salary>50000;

EMP\_NAME EMP\_SALARY EMP\_JOIN\_

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

Ann 80000 20-MAY-19

Sara 55000 13-OCT-22

Emy 65000 19-JAN-15

SQL> SELECT \* FROM employee70A ORDER BY emp\_salary DESC;

EMP\_ID EMP\_NAME EMP\_SALARY EMP\_JOIN\_ DEPT\_ID EMP\_EMAIL

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

2 Ann 80000 20-MAY-19 102 ann@gmail.com

5 Emy 65000 19-JAN-15 102 emy@gmail.com

4 Sara 55000 13-OCT-22 104 sara@gmail.com

3 Aby 40000 04-NOV-24 103 aby@gmail.com

6 Sam 38500 17-JAN-24 101 sam@gmail.com

SQL> SELECT emp\_name, emp\_salary FROM employee70A WHERE emp\_join\_date > TO\_DATE('01-01-2020', 'DD-MM-YYYY');

EMP\_NAME EMP\_SALARY

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

Aby 40000

Sara 55000

Sam 38500

SQL> SELECT emp\_name FROM employee70A WHERE emp\_name LIKE 'J%';

no rows selected

SQL> SELECT emp\_name FROM employee70A WHERE emp\_name LIKE 'A%';

EMP\_NAME

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

Ann

Aby

SQL> SELECT emp\_name,emp\_salary FROM employee70A WHERE emp\_salary BETWEEN 40000 AND 60000;

SQL>

EMP\_NAME EMP\_SALARY

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

Aby 40000

Sara 55000

SQL> SELECT dept\_id, SUM(emp\_salary) AS total\_salary FROM employee70A GROUP BY dept\_id;

DEPT\_ID TOTAL\_SALARY

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

104 55000

103 40000

101 38500

102 160000

SQL> SELECT dept\_id, AVG(emp\_salary) AS avg\_salary FROM employee70A GROUP BY dept\_id HAVING AVG(emp\_salary)>60000;

DEPT\_ID AVG\_SALARY

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

102 72500

SQL> SQL> SELECT dept\_id, COUNT(\*) AS num\_employees FROM employee70A WHERE emp\_salary>50000 GROUP BY dept\_id;

DEPT\_ID NUM\_EMPLOYEES

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

104 1

102 2

SQL> SELECT dept\_id, COUNT(\*) AS employee\_count FROM employee70A GROUP BY dept\_id HAVING COUNT(\*) > 3;

no rows selected