TASK 2 - SQL

❖ **Creating Students Table:**

CREATE TABLE Students (studentID NUMBER PRIMARY KEY, name VARCHAR2(30) NOT NULL, age NUMBER, email VARCHAR2(30), course VARCHAR2(15) DEFAULT 'Undeclared');

❖ **Inserting data into the table using INSERT INTO**

1. **Inserting complete data:**

INSERT INTO Students (studentID, name, age, email, course) VALUES (1, 'Mayank Sharma', 20, 'Mayank_sharma@gmail.com', 'Computer Science');

INSERT INTO Students (studentID, name, age, email, course) VALUES (2, 'Madhuri Pawar', 22, 'madhuri123@gmail.com', 'Electronics');

2. **Inserting with missing email:**

INSERT INTO Students (studentID, name, age, email, course) VALUES (3, 'Sonam Pandit', 19, NULL, 'Mechanical');

3. **Insert with default Course (uses DEFAULT value)**

INSERT INTO Students (studentID, name, age, email) VALUES (4, 'Ayush Jha', 21, 'ayush@gmail.com');

4. **Insert with multiple NULLs (Age and Email missing)**

INSERT INTO Students (studentID, name, age, email, course) VALUES (5, 'Diksha Kadu', NULL, NULL, 'Civil');

Displaying data: SELECT (studentID, name, age, email, course) FROM Students;

```
SQL> SELECT studentID, name, age, email, course FROM Students;

 STUDENTID NAME                                       AGE EMAIL                            COURSE
---------- -------------------------------- ---------- -------------------------------- ---------------
         1 Mayank Sharma                               20 Mayank_sharma@gmail.com          Computer
         2 Madhuri Pawar                               22 madhuri123@gmail.com             Electronics
         3 Sonam Pandit                                19                                  Mechanical
         4 Ayush Jha                                   21 ayush@gmail.com                  Undeclared
         5 Diksha Kadu                                                                     Civil
```

❖ **Updating Students data:**

1. UPDATE Students SET Email = 'sonam12@gmail.com' WHERE studentID = 3;

2. UPDATE Students SET Course = 'General Studies' WHERE Course IS NULL OR Course = 'Undeclared';

Displaying data: SELECT (studentID, name, age, email, course) FROM Students;

```
SQL> SELECT studentID, name, age, email, course FROM Students;

 STUDENTID NAME                                      AGE EMAIL                            COURSE
---------- -------------------------------- ---------- -------------------------------- ---------------
         1 Mayank Sharma                             20 Mayank_sharma@gmail.com          Computer
         2 Madhuri Pawar                             22 madhuri123@gmail.com             Electronics
         3 Sonam Pandit                              19 charlie123@example.com           Mechanical
         4 Ayush Jha                                 21 ayush@gmail.com                  General Studies
         5 Diksha Kadu                                                                   Civil
```

❖ **Deleting data from Students table:**

1. DELETE FROM Students WHERE Age IS NULL;

2. DELETE FROM Students WHERE Name = 'Sonam Pandit';

Displaying data: SELECT (studentID, name, age, email, course) FROM Students;

```
SQL> SELECT studentID, name, age, email, course FROM Students;

 STUDENTID NAME                                      AGE EMAIL                            COURSE
---------- -------------------------------- ---------- -------------------------------- ---------------
         1 Mayank Sharma                             20 Mayank_sharma@gmail.com          Computer
         2 Madhuri Pawar                             22 madhuri123@gmail.com             Electronics
         4 Ayush Jha                                 21 ayush@gmail.com                  General Studies
```