

## DBMS Assignment 1

**Question 1** Create a table Student (Rno, Name, DOB, Gender, Class, College, City, Marks)

```
CREATE TABLE Student (  
    RNo NUMBER(10),  
    Name VARCHAR(255),  
    DOB DATE,  
    Gender CHAR(1),  
    Class VARCHAR(5),  
    College VARCHAR(50),  
    City VARCHAR(25),  
    Marks NUMBER(3)  
);
```

**Output:**

Table created.

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**Question 2** Insert 5 records into the Student table

```
INSERT INTO Student VALUES (102303244, 'Himanshu Sardana', '04-JUN-2005', 'M', '2C21', 'Thapar', 'Patiala', 25);  
INSERT INTO Student VALUES (102303243, 'Harith Khanna', '03-JUL-2005', 'M', '2C21', 'Thapar', 'Patiala', 98);  
INSERT INTO Student VALUES (102303239, 'Nitish', '02-JAN-2005', 'M', '2C21', 'Thapar', 'Amritsar', 96);  
INSERT INTO Student VALUES (102303241, 'Angad Dhawan', '01-JAN-2005', 'M', '2C21', 'Thapar', 'Patiala', 98);  
INSERT INTO Student VALUES (102303242, 'Arnav Goyal', '05-MAR-2004', 'M', '2C21', 'Thapar', 'Patiala', 98);
```

**Output:**

```
1 row(s) inserted.  
1 row(s) inserted.  
1 row(s) inserted.  
1 row(s) inserted.  
1 row(s) inserted.
```

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**Question 3** Display the information of all the students

```
SELECT * FROM Student;
```

**Output:**

RNO	NAME	DOB	Gender	Class	College	City	Marks
102303244	Himanshu Sardana	04-JUN-2005	M	2C21	Thapar	Patiala	25
102303243	Harith Khanna	03-JUL-2005	M	2C21	Thapar	Patiala	98
102303239	Nitish	02-JAN-2005	M	2C21	Thapar	Amritsar	96

102303241	Angad Dhawan	01-JAN-2005	M	2C21	Thapar	Patiala	100
102303242	Arnav Goyal	05-MAR-2004	M	2C21	Thapar	Patiala	96

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#### Question 4 Display the detailed structure of the Student table

```
DESCRIBE Student;
```

**Output:** | Column | Null? | Type | | RNO | - | NUMBER(10, 0) | | NAME | - | VARCHAR2(255) | | DOB | - | DATE | | Gender | - | CHAR(1) | | Class | - | VARCHAR2(5) | | College | - | VARCHAR2(50) | | City | - | VARCHAR2(25) | | Marks | - | NUMBER(3, 0) |

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#### Question 5 Display Rno, Name and Class information of 'Patiala' students

```
SELECT RNo, Name, Class FROM Student WHERE City = 'Patiala'
```

**Output:** | RNO | NAME | Class | | 102303244 | Himanshu Sardana | 2C21 | | 102303243 | Harith Khanna | 2C21 | | 102303241 | Angad Dhawan | 2C21 | | 102303242 | Arnav Goyal | 2C21 |

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#### Question 6 Display information on ascending order of marks

```
SELECT * FROM Student ORDER BY Marks;
```

**Output:** | RNO | NAME | DOB | Gender | Class | College | City | Marks | | 102303244 | Himanshu Sardana | 04-JUN-2005 | M | 2C21 | Thapar | Patiala | 25 | | 102303243 | Harith Khanna | 03-JUL-2005 | M | 2C21 | Thapar | Patiala | 98 | | 102303239 | Nitish | 02-JAN-2005 | M | 2C21 | Thapar | Amritsar | 96 | | 102303242 | Arnav Goyal | 05-MAR-2004 | M | 2C21 | Thapar | Patiala | 96 | | 102303241 | Angad Dhawan | 01-JAN-2005 | M | 2C21 | Thapar | Patiala | 100 |

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#### Question 7 Change the marks of Rno 5 to 89

```
UPDATE Student SET Marks = 89 WHERE RNo = '102303243';
```

**Output:**

1 row(s) updated.

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**Question 8** Change the name and city of Rno 9

```
UPDATE Student SET Marks = 90, CITY = 'Delhi' WHERE RNo = '102303244';
```

**Output:**

1 row(s) updated.

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**Question 9** Delete the information of 'Amritsar' city records.

```
DELETE FROM Student WHERE CITY = 'Amritsar';
```

**Output:**

1 row(s) deleted.

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**Question 10** Delete the records of students where marks < 30.

```
DELETE FROM STUDENT WHERE MARKS < 30;
```

**Output:**

1 row(s) deleted.