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CSE 4

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A Practical activity Report submitted for UCS310

DATABASE MANAGEMENT SYSTEM

Assignment 1



THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

Computer Science and Engineering

Patiala Campus

2021

Question 1

1. Create table Student (Rno, Name, DOB, Gender, Class, College, City, Marks)
2. Insert 5 records in student table
3. Display the information of all the students
4. Display the detail structure of student table
5. Display Rno, Name and Class information of 'Patiala' students.
6. Display information on ascending order of marks
7. Change the marks of Rno 5 to 89.
8. Change the name and city of Rno 9.
9. Delete the information of 'Amritsar' city records
10. Delete the records of student where marks<30.

Solution -

```
1 REM ASSIGNMENT1
2 CREATE TABLE Student(RNo int, Name varchar(20), DOB DATE, Gender varchar(1), Class varchar(10), College varchar(40), City varchar(15), Marks int);
3 INSERT INTO Student VALUES(01, 'Harsh', DATE '2000-01-29', 'M', 'CSE4', 'Thapar Institute ', 'Amritsar', 72);
4 INSERT INTO Student VALUES(02, 'Akshat', DATE '2001-02-14', 'M', 'COPC', 'Thapar Institute of', 'Patiala', 22);
5 INSERT INTO Student VALUES(03, 'Ishita', DATE '1998-05-22', 'F', 'CSE4', 'Kalinga Institute ', 'Bhuvaneshwar', 86);
6 INSERT INTO Student VALUES(05, 'Satyam', DATE '2002-01-27', 'M', 'ENC', 'IIT, Guwahati', 'Guwahati', 99);
7 INSERT INTO Student VALUES(09, 'Raghav', DATE '2000-01-05', 'M', 'CIV', 'Amity', 'Amritsar', 23);
8
9 SELECT * FROM Student ;
10
11 DESCRIBE Student;
12
13 SELECT RNo, Name, Class FROM Student
14 WHERE City = 'Patiala';
15
16 SELECT * FROM Student ORDER BY Marks ASC;
17
18 UPDATE Student
19 SET Marks= 89
20 WHERE RNo=5;
21
22 UPDATE Student
23 SET Name= 'Prateek', City= 'Chandigarh'
24 WHERE RNo=9;
25
26 DELETE FROM Student
27 WHERE City='Amritsar';
28
29 DELETE FROM Student
30 WHERE Marks < 30;
31 SELECT * FROM Student ;
```

SQL Statement Output

Script:

```
REM ASSIGNMENT1
CREATE TABLE Student(RNo int, Name varchar(20), DOB DATE, Gender varchar(1), Class varchar(10), College
varchar(40), City varchar(15), Marks int);
INSERT INTO Student VALUES(01, 'Harsh', DATE '2000-01-29', 'M', 'CSE4', 'Thapar Institute ', 'Amritsar', 72);
INSERT INTO Student VALUES(02, 'Akshat', DATE '2001-02-14', 'M', 'COPC', 'Thapar Institute of', 'Patiala', 22);
```

```
INSERT INTO Student VALUES(03, 'Ishita', DATE '1998-05-22', 'F', 'CSE4', 'Kalinga Institute ', 'Bhuvaneshwar', 86);
INSERT INTO Student VALUES(05, 'Satyam', DATE '2002-01-27', 'M', 'ENC', 'IIT, Guwahati', 'Guwahati', 99);
INSERT INTO Student VALUES(09, 'Raghav', DATE '2000-01-05', 'M', 'CIV', 'Amity', 'Amritsar', 23);
```

```
SELECT * FROM Student ;
```

```
DESCRIBE Student;
```

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

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



















```
UPDATE Student
SET Marks= 89
WHERE RNo=5;
```

```
UPDATE Student
SET Name= 'Prateek', City= 'Chandigarh'
WHERE RNo=9;
```

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

```
DELETE FROM Student
WHERE Marks < 30;
SELECT * FROM Student ;
```

Screenshots

| | |
|---------------|---|
| Statement 416 | <div></div> <div>CREATE TABLE Student(RNo int, Name varchar(20), DOB DATE, Gender varchar(1), Class varchar(10), College varchar(40), City varchar(15), Marks int)</div> |
| | Table created. |
| Statement 417 | <div></div> <div>INSERT INTO Student VALUES(01, 'Harsh', DATE '2000-01-29', 'M', 'CSE4', 'Thapar Institute ', 'Amritsar', 72)</div> |
| | 1 row(s) inserted. |
| Statement 418 | <div></div> <div>INSERT INTO Student VALUES(02, 'Akshat', DATE '2001-02-14', 'M', 'COPC', 'Thapar Institute of', 'Patiala', 22)</div> |
| | 1 row(s) inserted. |
| Statement 419 | <div></div> <div>INSERT INTO Student VALUES(03, 'Ishita', DATE '1998-05-22', 'F', 'CSE4', 'Kalinga Institute ', 'Bhubaneshwar', 86)</div> |
| | 1 row(s) inserted. |
| Statement 420 | <div></div> <div>INSERT INTO Student VALUES(05, 'Satyam', DATE '2002-01-27', 'M', 'ENC', 'IIT, Guwahati', 'Guwahati', 99)</div> |
| | 1 row(s) inserted. |
| Statement 421 | <div></div> <div>INSERT INTO Student VALUES(09, 'Raghav', DATE '2000-01-05', 'M', 'CIV', 'Amity', 'Amritsar', 23)</div> |
| | 1 row(s) inserted. |

Statement422

SELECT * FROM Student

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------------------|--------------|-------|
| 1 | Harsh | 29-JAN-00 | M | CSE4 | Thapar Institute | Amritsar | 72 |
| 2 | Akshat | 14-FEB-01 | M | COPC | Thapar Institute of | Patiala | 22 |
| 3 | Ishita | 22-MAY-98 | F | CSE4 | Kalinga Institute | Bhuvaneshwar | 86 |
| 5 | Satyam | 27-JAN-02 | M | ENC | IIT, Guwahati | Guwahati | 99 |
| 9 | Raghav | 05-JAN-00 | M | CIV | Amity | Amritsar | 23 |

Download CSV

5 rows selected.

Statement423

DESCRIBE Student

TABLE STUDENT

| Column | Null? | Type |
|---------|-------|--------------|
| RNO | - | NUMBER |
| NAME | - | VARCHAR2(20) |
| DOB | - | DATE |
| GENDER | - | VARCHAR2(1) |
| CLASS | - | VARCHAR2(10) |
| COLLEGE | - | VARCHAR2(40) |
| CITY | - | VARCHAR2(15) |
| MARKS | - | NUMBER |

Download CSV

8 rows selected.

Statement425

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

| RNO | NAME | CLASS |
|-----|--------|-------|
| 2 | Akshat | COPC |

Download CSV

Statement426

SELECT * FROM Student ORDER BY Marks ASC

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------------------|--------------|-------|
| 2 | Akshat | 14-FEB-01 | M | COPC | Thapar Institute of | Patiala | 22 |
| 9 | Raghav | 05-JAN-00 | M | CIV | Amity | Amritsar | 23 |
| 1 | Harsh | 29-JAN-00 | M | CSE4 | Thapar Institute | Amritsar | 72 |
| 3 | Ishita | 22-MAY-98 | F | CSE4 | Kalinga Institute | Bhuvaneshwar | 86 |
| 5 | Satyam | 27-JAN-02 | M | ENC | IIT, Guwahati | Guwahati | 99 |

Download CSV

5 rows selected.

Statement427

UPDATE Student
SET Marks= 89
WHERE RNo=5

1 row(s) updated.

Statement428

UPDATE Student
SET Name= 'Prateek', City= 'Chandigarh'
WHERE RNo=9

1 row(s) updated.

Statement 429

DELETE FROM Student

WHERE City='Amritsar'

1 row(s) deleted.

Statement 430

DELETE FROM Student

WHERE Marks < 30

2 row(s) deleted.

Statement 431

SELECT * FROM Student

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|-------------------|-------------|-------|
| 3 | Ishita | 22-MAY-98 | F | CSE4 | Kalinga Institute | Bhuvaneswar | 86 |
| 5 | Satyam | 27-JAN-02 | M | ENC | IIT, Guwahati | Guwahati | 89 |

Download CSV

2 rows selected.

Thank you...