Exercise 1: SQL Introduction

Date: 6-12-2019

i) Create table “Student” with the attributes RegNumber, StudName, Department, ContactNumber, Location, Mark1, Mark2, Mark3

ii) Display the structure of the table

iii) Add new Column “Age” and insert values.

iv) Insert 7 values

v) Rename the ContactNumber attribute as MobileNo

vi) Display the table with all attributes

vii) Display the students who studies in ‘CSE’

viii) Delete the records of student whose Location is “Kolkata”

ix)Modify the table by removing Location attribute

x) Truncate the student table.

xi) Drop the table Student

**Answers**

i) create table student(

RegNumber varchar2(10) primary key,

StudName varchar2(30) not null,

Department varchar2(20) not null,

ContactNumber number(10) not null,

Location varchar2(100) not null,

Mark1 number(3),

Mark2 number(3),

Mark3 number(3));

ii) desc student;

Name Null? Type

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REGNUMBER NOT NULL VARCHAR2(10)

STUDNAME NOT NULL VARCHAR2(30)

DEPARTMENT NOT NULL VARCHAR2(20)

CONTACTNUMBER NOT NULL NUMBER(10)

LOCATION NOT NULL VARCHAR2(100)

MARK1 NUMBER(3)

MARK2 NUMBER(3)

MARK3 NUMBER(3)

iii) alter table student

add Age number(3);

Name Null? Type

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REGNUMBER NOT NULL VARCHAR2(10)

STUDNAME NOT NULL VARCHAR2(30)

DEPARTMENT NOT NULL VARCHAR2(20)

CONTACTNUMBER NOT NULL NUMBER(10)

LOCATION NOT NULL VARCHAR2(100)

MARK1 NUMBER(3)

AGE NUMBER(3)

iv) insert into student values('19BCE1603','Wilson','CSE',9674825476,'Delhi',98,99,97,19);

1 row created.

insert into student values('19BCE1606','Rishank','CSE',9764445476,'Orisa',88,79,99,19);

1 row created.

insert into student values('19BCE1639','Rohit','CSE',9675855476,'Jharkhand',88,79,77,19);

1 row created.

insert into student values('19BCE1649','Dan','BPS',9433320236,'Bihar',99,79,67,19);

1 row created.

insert into student values('19BCE1659','Sen','BPS',9874520236,'Bihar',58,99,67,19);

1 row created.

insert into student values('19BCE1669','Lohit','Law',8745220236,'Tamil Nadu',88,75,97,19);

1 row created.

insert into student values('19BCE1689','Rita','CSE',8777844536,'UP',54,69,95,19);

1 row created.

v) alter table student rename column ContactNumber to MobileNo;

Table altered.

vi) select \* from student;

REGNUMBER STUDNAME DEPARTMENT MOBILENO

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LOCATION

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MARK1 MARK2 MARK3 AGE

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19BCE1603 Wilson CSE 9674825476

Delhi

98 99 97 19

19BCE1606 Rishank CSE 9764445476

Jharkhand

88 79 99 19

REGNUMBER STUDNAME DEPARTMENT MOBILENO

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

LOCATION

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

MARK1 MARK2 MARK3 AGE

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

19BCE1639 Rohit CSE 9675855476

Orisa

88 79 77 19

19BCE1649 Dan BPS 9433320236

Bihar

REGNUMBER STUDNAME DEPARTMENT MOBILENO

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

LOCATION

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

MARK1 MARK2 MARK3 AGE

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

99 79 67 19

19BCE1659 Sen BPS 9874520236

Bihar

58 99 67 19

19BCE1669 Lohit Law 8745220236

REGNUMBER STUDNAME DEPARTMENT MOBILENO

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

LOCATION

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

MARK1 MARK2 MARK3 AGE

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

Tamil Nadu

88 75 97 19

19BCE1689 Rita CSE 8777844536

UP

54 69 95 19

7 rows selected.

vii) select \* from student where Department='CSE';

REGNUMBER STUDNAME DEPARTMENT MOBILENO

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LOCATION

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MARK1 MARK2 MARK3 AGE

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

19BCE1619 Anikait CSE 9674825476

Kolkata

98 99 97 19

19BCE1629 Mohit CSE 9764445476

Orisa

88 79 99 19

REGNUMBER STUDNAME DEPARTMENT MOBILENO

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

LOCATION

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

MARK1 MARK2 MARK3 AGE

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

19BCE1639 Rohit CSE 9675855476

Orisa

88 79 77 19

19BCE1689 Rita CSE 8777844536

UP

REGNUMBER STUDNAME DEPARTMENT MOBILENO

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

LOCATION

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

MARK1 MARK2 MARK3 AGE

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

54 69 95 19

viii) delete from student where Location='Delhi';

1 row deleted.

ix) alter table student drop column Location;

Table altered.

x) truncate table student;

Table truncated.

xi) drop table student;

Table dropped.