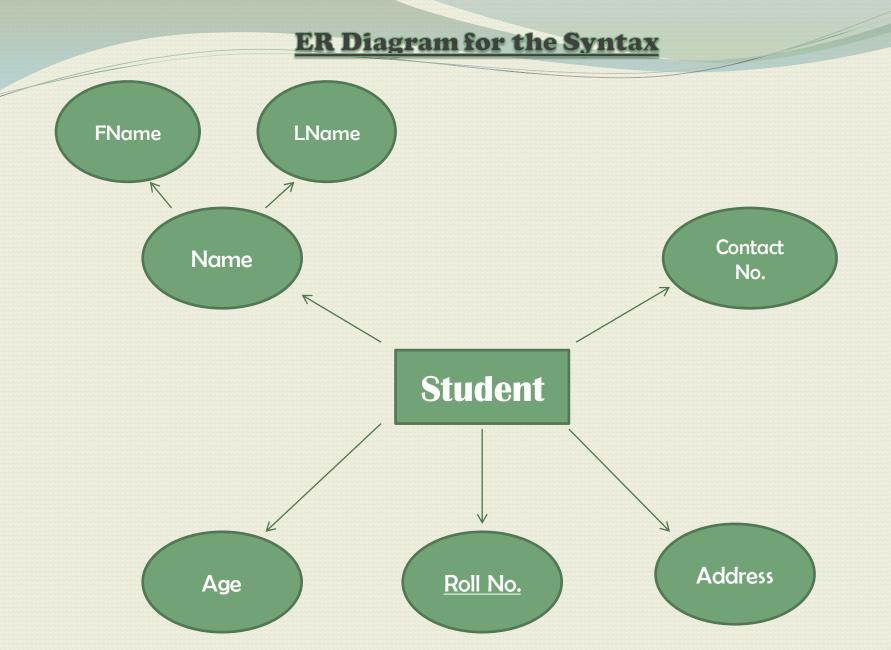
Name – Yash Rane (734) Pratik Mhatre (724)

Class - TYBSc (Statistics)

Subject - Applied Component (Statistics Paper5)

Topic - <u>Student Management System</u>



SQL Syntax Function –

1.) Create a Table for students containing data of their admission using Create Table Command and Use Primary Key Function Insert 10 records in the table and display them Using Select * from Table command

Syntax-

Create Table STUDENT (RollNo number(3) primary key not null, FName varchar2(10) not null, LName varchar2(10), Age INT not null, Address char(15) not null, Contact INT not null);

Type this syntax into your SQL Database and press ENTER key. It will create a table named 'STUDENT'

Values to be Inserted in the Table –

```
INSERT INTO STUDENT VALUES (101, 'YASH', 'RANE', 20, 'MUMBAI', 0123456789);
    INSERT INTO STUDENT VALUES (102, 'PRATIK', 'MHATRE', 20, 'MUMBAI', 1234567890);
    INSERT INTO STUDENT VALUES (103, 'NISHANT', 'MHATRE', 20, 'THANE', 1234506789);
   INSERT INTO STUDENT VALUES (104, 'PUSHPAK', 'BHONDE', 20, 'MUMBAI', 1234500786);
   INSERT INTO STUDENT VALUES (105, 'SANDESH', 'JADHAV', 20, 'MUMBAI', 1023456420);
INSERT INTO STUDENT VALUES (106, 'DHANRAJ', 'PANWAR', 20, 'NAVI MUMBAI', 1234564200);
     INSERT INTO STUDENT VALUES (107, 'ASHISH', 'PATIL', 20, 'PALGHAR', 1234056042);
      INSERT INTO STUDENT VALUES (108, 'KEDAR', 'JADHAV', 20, 'PUNE', 1234506400);
       INSERT INTO STUDENT VALUES (109, 'VIRAT', 'KOLHI', 20, 'DELHI', 1818181818);
  INSERT INTO STUDENT VALUES (110, 'SACHIN', 'TENDULKAR', 20, 'MUMBAI', 1001001001);
```

Alternate and Efficient way using Ampersand -

SYNTAX - INSERT INTO STUDENT VALUES (&ROLLNO, '&FNAME', '&LNAME', &AGE, '&ADDRESS', &CONTACT);

If we want to alter the above table like adding or removing something from the table, then we use the **Alter Table Command** – **alter table STUDENT add Unique (Contact No)**;

To update someone's name in the table, use the update command update STUDENT set Fname = '_____' where RollNo = _____;

To arrange the name in alphabetical order use the command – Select Lname from STUDENT where name like 'a%';

To identify the students taking admission in college are from Mumbai use the Command –

Select * from STUDENT where city = 'Mumbai'

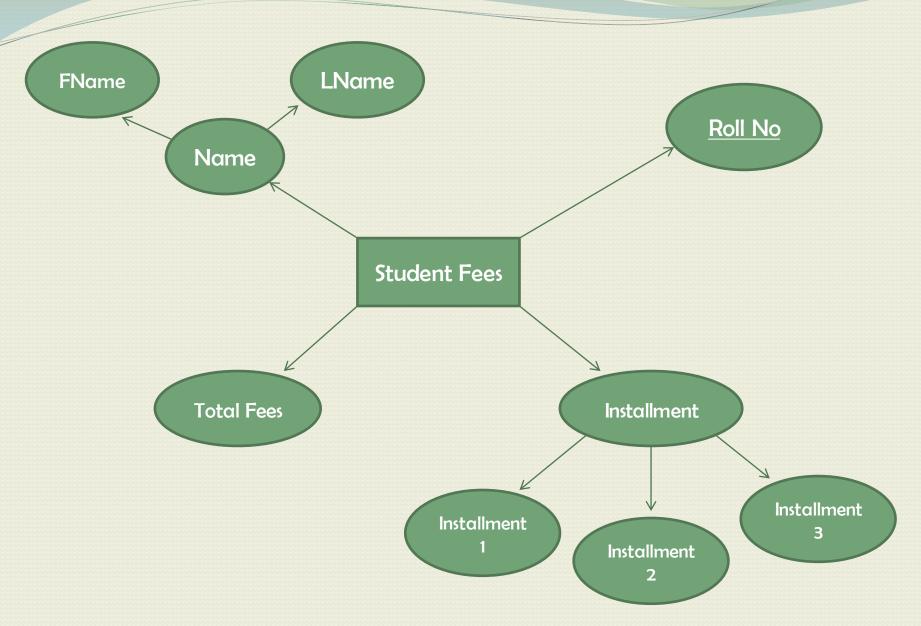
SELECT * FROM STUDENT;

After applying Select command, we get the output as given below -

ROLLNO	FNAME	LNAME	AGE	ADDRESS	CONTACT
101	YASH	RANE	20	MUMBAI	123456789
102	PRATIK	MHATRE	20	MUMBAI	1234567890
103	NISHANT	MHATRE	20	THANE	1234506789
104	PUSHPAK	BHONDE	20	MUMBAI	1234500786
105	SANDESH	JADHAV	20	MUMBAI	123456420
106	DHANRAJ	PANWAR	20	NAVI MUMBAI	1234564200
107	ASHISH	PATIL	20	PALGHAR	12345642
108	KEDAR	JADHAV	20	PUNE	123456400
109	VIRAT	KOLHI	20	DELHI	1818181818
110	SACHIN	TENDULKAR	20	MUMBAI	1001001001
		<u> </u>			

To get information about specific student - Use **Select** * **from STUDENT where RollNo** = **107**;

ER Diagram for the above Syntax



2.) Create a Table for students containing data of the payment of admission fees using Create Table Command and Use Primary Key Function. Insert 10 records in the table and display them Using Select * from Table command.

Syntax –
CREATE TABLE STUDENTFEES(
Rollno number (3) primary key not null,
FName varchar (10) not null,
LName varchar (10),
Totalfees number (5) not null,
Installment char not null,
Inst1 number (5) not null,
Inst2 number (5) not null,
Inst3 number (5) not null
);

Values to be Inserted in the Table -

```
INSERT INTO STUDENTFEES VALUES (201, 'YASH', 'RANE', 16450, 'N', 0, 0, 0);
 INSERT INTO STUDENTFEES VALUES (202, 'PRATIK', 'MHATRE', 16450, 'Y', 5483, 5483, 5484);
     INSERT INTO STUDENTFEES VALUES (203, 'NISHANT', 'MHATRE', 16450, 'N', 0, 0, 0);
     INSERT INTO STUDENTFEES VALUES (204, 'PUSHPAK', 'BHONDE', 16450, 'N', 0, 0, 0);
     INSERT INTO STUDENTFEES VALUES (205, 'SANDESH', 'JADHAV', 16450, 'N', 0, 0, 0);
INSERT INTO STUDENTFEES VALUES (206, 'DHANRAJ', 'PANWAR', 16450, 'Y', 5483, 5483, 5484);
   INSERT INTO STUDENTFEES VALUES (207, 'ASHISH', 'PATIL', 16450, 'Y', 5483, 5483, 5484);
 INSERT INTO STUDENTFEES VALUES (208, 'KEDAR', 'JADHAV', 16450, 'Y', 5483, 5483, 5484);
   INSERT INTO STUDENTFEES VALUES (209, 'VIRAT', 'KOLHI', 16450, 'Y', 5483, 5483, 5484);
    INSERT INTO STUDENTFEES VALUES (210, 'SACHIN', 'TENDULKAR', 16450, 'N', 0, 0, 0);
```

Alternate and Efficient way using Ampersand –

INSERT INTO STUDENT VALUES (&ROLLNO, '&FNAME', '&LNAME', &TOTALFEES, &INSTALLMENT', &Inst1, &Inst2, &Inst3);

SELECT * FROM STUDENTFEES;

After applying Select command, we get the output as given below -

ROLLNO	FNAME	LNAME	TOTALFEES	Ι	INST1	INST2	INST3
201	YASH	RANE	16450	N	0	0	0
202	PRATIK	MHATRE	16450	Υ	5483	5483	5484
203	NISHANT	MHATRE	16450	N	0	0	0
204	PUSHPAK	BHONDE	16450	N	0	0	0
205	SANDESH	JADHAV	16450	N	0	0	0
206	DHANRAJ	PANWAR	16450	Υ	5483	5483	5484
207	ASHISH	PATIL	16450	Υ	5483	5483	5484
208	KEDAR	JADHAV	16450	Υ	5483	5483	5484
209	VIRAT	KOLHI	16450	Υ	5483	5483	5484
210	SACHIN	TENDULKAR	16450	N	0	0	0

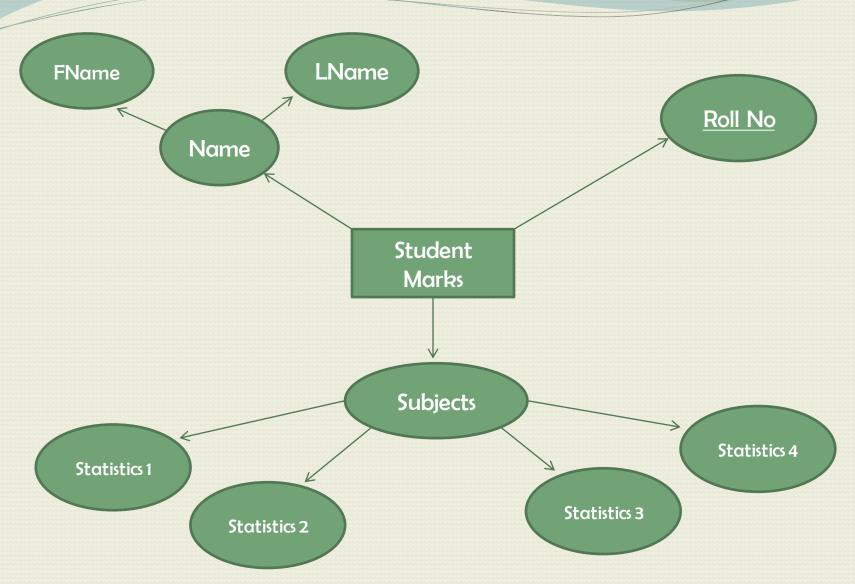
To update data use —

Update STUDENTFEES set INST1 = 5483 where Rollno = _____;

Arrange Names in a particular order
select name from STUDENTFEES where name like 'a%';

To get information about specific student
Use Select * from STUDENTFEES where RollNo = 207

ER Diagram for the above Syntax



25-11-2020

11

3.) Create a Table for students containing data of the their marks obtained in examination using Create Table Command and Use Primary Key Function. Insert 10 records in the table and display them Using Select * from Table command.

Syntax –
CREATE TABLE STUDENTMARKS(
Rollno number (3) primary key not null,
Name varchar (16) not null,
stat1 number(3) not null check(stat1<=100),
stat2 number(3) not null check(stat2<=100),
stat3 number(3) not null check(stat3<=100),
stat4 number(3) not null check(stat4<=100),
):

Values to be Inserted in the Table –

INSERT INTO STUDENTMARKS VALUES (301, 'YASH RANE', 70, 63, 59, 72); INSERT INTO STUDENTMARKS VALUES (302, 'PRATIK MHATRE', 68, 60, 49, 80); INSERT INTO STUDENTMARKS VALUES (303, 'NISHANT MHATRE', 80, 76, 68, 83); INSERT INTO STUDENTMARKS VALUES (304, 'PUSHPAK BHONDE', 92, 86, 82, 90); INSERT INTO STUDENTMARKS VALUES (305, 'SANDESH JADHAV', 65, 52, 58, 69); INSERT INTO STUDENTMARKS VALUES (306, 'DHANRAJ PANWAR', 84, 50, 53, 64); INSERT INTO STUDENTMARKS VALUES (307, 'ASHISH PATIL', 42, 59, 56, 65); INSERT INTO STUDENTMARKS VALUES (308, 'KEDAR JADHAV', 72, 60, 58, 69); INSERT INTO STUDENTMARKS VALUES (309, 'VIRAT KOLHI', 42, 60, 56, 49); INSERT INTO STUDENTMARKS VALUES (310, 'SACHIN TENDULKAR', 80, 91, 96, 89);

Alternate and Efficient way using Ampersand – INSERT INTO STUDENT VALUES (&ROLLNO, '&NAME', &Stat1, &Stat2, &Stat3, &Stat4);

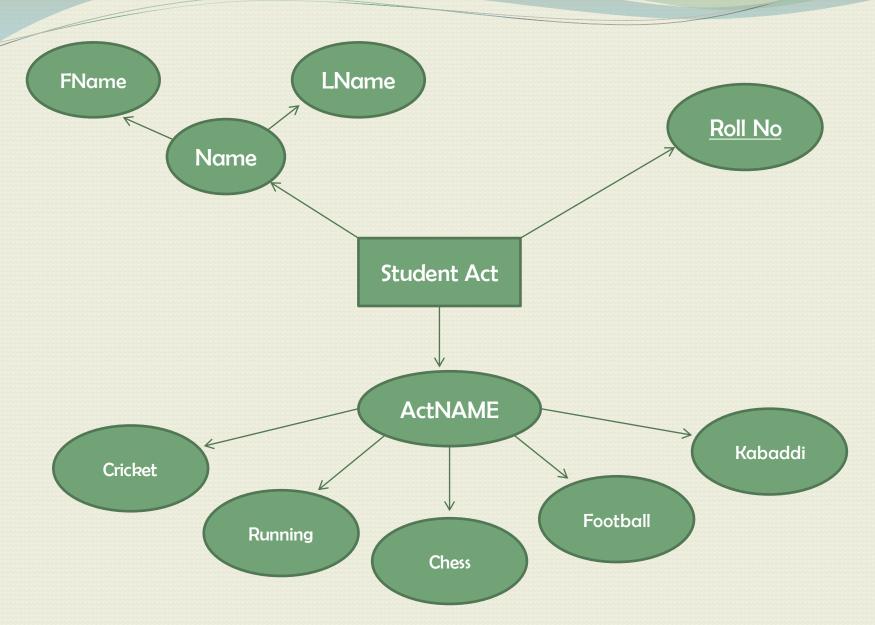
SELECT * FROM STUDENTMARKS;

After applying Select command, we get the output as given below -

STA	AT1 STAT2	STAT3	STAT4
 NE MHATRE MHATRE	68 60	49	72 80 83
			90 69
			64 65
	42 60	56	69 49 89
	IE MHATRE MHATRE BHONDE JADHAV PANWAR PATIL ADHAV OLHI	NE 70 63 NHATRE 68 66 MHATRE 80 76 BHONDE 92 86 JADHAV 65 52 PANWAR 84 56 PATIL 42 59 ADHAV 72 66 DLHI 42 66	NE 70 63 59 MHATRE 68 60 49 MHATRE 80 76 68 BHONDE 92 86 82 JADHAV 65 52 58 PANWAR 84 50 53 PATIL 42 59 56 ADHAV 72 60 58 DLHI 42 60 56

update STUDENTMARKS set Stat4 = 60 where FName = '__'
To get information about specific student Use Select * from STUDENT where RollNo = 307

ER Diagram for the above Syntax



4.) Create a Table for students containing data of the their co-curricular activities in which they are involved using Create Table Command and Use Primary Key Function.

Insert 10 records in the table and display them

Using Select * from Table command.

Syntax –

CREATE TABLE STUDENTACT(Rollno number(3) primary key not null,

Name varchar2(16) not null,

ActName varchar2(10) not null);

Values to be Inserted in the Table -

```
INSERT INTO STUDENTACT VALUES (401, 'YASH RANE', 'CRICKET');
   INSERT INTO STUDENTACT VALUES (402, 'PRATIK MHATRE', 'CHESS');
 INSERT INTO STUDENTACT VALUES (403, 'NISHANT MHATRE', 'KABADDI');
INSERT INTO STUDENTACT VALUES (404, 'PUSHPAK BHONDE', 'FOOTBALL'):
 INSERT INTO STUDENTACT VALUES (405, 'SANDESH JADHAV', 'CRICKET');
INSERT INTO STUDENTACT VALUES (406, 'DHANRAJ PANWAR', 'FOOTBALL');
  INSERT INTO STUDENTACT VALUES (407, 'ASHISH PATIL', 'RUNNING');
  INSERT INTO STUDENTACT VALUES (408, 'KEDAR JADHAV', 'KABADDI');
    INSERT INTO STUDENTACT VALUES (409, 'VIRAT KOLHI', 'CRICKET');
INSERT INTO STUDENTACT VALUES (410, 'SACHIN TENDULKAR', 'CRICKET');
```

Alternate and Efficient way using Ampersand –
INSERT INTO STUDENT VALUES (&ROLLNO, '&NAME', &Stat1, &Stat2, &Stat3, &Stat4);

SELECT * FROM STUDENTACT;

After applying Select command, we get the output as given below -

ROLLNO	NAME	ACTNAME
401	YASH RANE	CRICKET
402	PRATIK MHATRE	CHESS
403	NISHANT MHATRE	KABADDI
404	PUSHPAK BHONDE	FOOTBALL
405	SANDESH JADHAV	CRICKET
406	DHANRAJ PANWAR	FOOTBALL
407	ASHISH PATIL	RUNNING
408	KEDAR JADHAV	KABADDI
409	VIRAT KOLHI	CRICKET
410	SACHIN TENDULKAR	CRICKET

To get information about specific student - Use Select * from STUDENT where RollNo = 407

THANK YOU...