SQL ASSIGNMENT

- 1. Create a table named tblParents in Student schema, the Create table definition will be as following (minimum 20 entries is required)
 - Parent_id
 - Parents_Name
 - City
 - Age
 - Annual_Income
 - Occupation
 - Email id

Solution:-

```
create database Student;

use student;

//table Creation

create table tblparents(
parent_id int not null,
parent_name varchar(25) not null,
city varchar(25) not null,
age int not null,
occupation varchar(25) not null,
annual_income decimal(8,0) not null,
email_id varchar(35),
primary key(parent_id)
);
```

//Inserting Values in table

```
insert into tblparents(parent_id,parent_name,city,age,occupation,annual_income) values(1,'Rohan Mehra','allahabad',42,'Private Job',900000), (2,'Karan Singh','delhi',48,'Farmer',800000), (3,'Gohan Khan','Mumbai',52,'Goverment Job',1000000), (4,'Jahul Khan','chennai',32,'Business Man',600000),
```

```
(5,'Udit Narayan','faridabad',38,'Private Job',1200000),
(6, Sunil Grover', Ahmedabad', 46, Private Job', 300000),
(7,'Kapil Sharma','allahabad',44,'Private Job',1100000),
(8,'Sushi Roy','Mumbai',41,'Private Job',200000),
(9,'Kajal Bisht','Delhi',54,'Goverment Job',700000),
(10, 'Sanjay Bisht', 'Banglore', 37, 'Business Man', 1400000),
(11,'Varun Gupta','Karnataka',63,'Private Job',1700000),
(12, 'Lalit Bisht', 'Ahmedabad', 62, 'Farmer', 500000),
(13, 'Suresh Raghav', 'Chennai', 33, 'Private Job', 800000),
(14, 'Dinesh Chauhan', 'Mumbai', 44, 'Private Job', 700000),
(15, 'Ram Gopal', 'allahabad', 55, 'Farmer', 1800000),
(16, 'Krishna Nandan', 'Delhi', 35, 'Goverment Job', 2000000),
(17, 'Jaspreet Singh', 'allahabad', 43, 'Farmer', 1100000),
(18,'Abhinandan Kargil','Patna',61,'Business Man',1800000),
(19, 'Naveen Bhati', 'Ahmedabad', 59, 'Farmer', 1400000),
(20,'Vivek Kushwaha','Ahmedabad',49,'Private Job',300000)
;
```

arent_id	parent_name	city	age	occupation	annual_income	email_id
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Rohan Mehra Karan Singh Gohan Khan Jahul Khan Udit Narayan Sunil Grover Kapil Sharma Sushi Roy Kajal Bisht Sanjay Bisht Varun Gupta Lalit Bisht Suresh Raghav Dinesh Chauhan Ram Gopal	allahabad delhi Mumbai chennai faridabad Ahmedabad Mumbai Delhi Banglore Karnataka Ahmedabad Chennai Mumbai allahabad	48 52 32 38 44 41 54 37 63 62 34 44 55	Private Job Farmer Goverment Job Business Man Private Job Private Job Private Job Goverment Job Business Man Private Job Farmer Private Job Farmer Goverment Job	600000 1200000 300000 1100000 2000000 700000 1700000 500000 800000 7000000 18000000	NULL NULL NULL NULL NULL NULL NULL NULL
17 18 19 20	Jaspreet Singh Abhinandan Kargil Naveen Bhati Vivek Kushwaha	allahabad Patna Ahmedabad Ahmedabad		Farmer Business Man Farmer Private Job	1100000 1800000 1400000 300000	NULL NULL NULL NULL

2. Update email id of each parents as "Na"

Solution:-

SET SQL SAFE UPDATES=0;

Update tblparents set email_id="NA";

Select * from tblparents

```
mysql> update tblparents set email_id="NA";
Query OK, 20 rows affected (0.14 sec)
Rows matched: 20 Changed: 20 Warnings: 0
mysql> select * from tblparents;
                                                                                                                    email_id
  parent_id |
                   parent_name
                                              city
                                                                        occupation
                                                                                              annual_income |
                                                               age
                                                                 42
48
52
32
                                               allahabad
delhi
                                                                                                        900000
                                                                                                                    NA
NA
                   Rohan Mehra
                                                                        Private Job
             1
2
3
4
                   Karan Singh
                                                                        Farmer
                                                                                                       800000
                   Gohan Khan
                                               Mumbai
                                                                                                      1000000
                                                                                                                    NA
                                                                        Government Job
                   Jahul Khan
                                                                        Business Man
                                                                                                       600000
                                                                                                                    NA
                                               chennai
                   Udit Narayan
Sunil Grover
Kapil Sharma
Sushi Roy
Kajal Bisht
                                                                 38
46
             5
6
7
8
9
                                                                        Private Job
                                                                                                      1200000
                                                                                                                    NA
                                               faridabad
                                                                       Private Job
Private Job
                                                                                                                    NA
                                               Ahmedabad
                                                                                                        300000
                                               allahabad
                                                                 44
41
54
37
63
62
33
44
55
35
                                                                                                      1100000
                                                                                                                    NA
                                                                                                                    NA
NA
                                                                                                       200000
700000
                                               Mumbai
Delhi
                                                                        Private Job
                                                                        Goverment Job
                   Sanjay Bisht
Varun Gupta
Lalit Bisht
                                                                        Business Man
                                                                                                      1400000
            10
                                               Banglore
                                                                                                                    NA
                                                                                                      1700000
500000
            11
                                                                        Private Job
                                                                                                                    NA
                                               Karnataka
            12
13
                                                                                                                    NA
                                               Ahmedabad
                                                                        Farmer
                   Suresh Raghav
                                               Chennai
                                                                        Private Job
                                                                                                        800000
                                                                                                                    NA
            14
                   Dinesh Chauhan
                                                                                                                    NA
                                               Mumbai
                                                                        Private Job
                                                                                                        700000
                                               allahabad
                                                                                                      1800000
            15
                   Ram Gopal
                                                                                                                    NA
                                                                        Farmer
            16
                   Krishna Nandan
                                               Delhi
                                                                        Goverment Job
                                                                                                      2000000
                                                                                                                    NA
                   Jaspreet Singh
Abhinandan Kargil
                                               allahabad
                                                                 43
                                                                                                      1100000
                                                                                                                    NA
                                                                        Farmer
            18
                                                                 61
                                                                        Business Man
                                                                                                      1800000
                                                                                                                    NΑ
                                               Patna
                                                                 59
            19
20
                   Naveen Bhati
                                               Ahmedabad
                                                                        Farmer
                                                                                                      1400000
                                                                                                                    NA
                   Vivek Kushwaha
                                               Ahmedabad
                                                                 49
                                                                        Private Job
                                                                                                        300000
                                                                                                                    NA
20 rows in set (0.00 sec)
```

3. Count Nunber of parents whose annual income is more than 6 lakhs

Solution:-

Select count(parent id) from tblparents where annual income>600000;

4. Select parents who are living in city Ahmedabad, Delhi, Mumbai, Chennai, Bangalore

Solution:-

select * from tblparents

where city in ('Ahmedabad', 'Delhi', 'Mumbai', 'Chennai', 'Bangalore');

parent_id	parent_name	city	age	occupation	annual_income	email_id
2	Karan Singh	delhi	 48	 Farmer	800000	 NA
3	Gohan Khan	Mumbai	52	Goverment Job	1000000	NA
4	Jahul Khan	chennai	32	Business Man	600000	NA
6	Sunil Grover	Ahmedabad	46	Private Job	300000	NA
8	Sushi Roy	Mumbai	41	Private Job	200000	NA
9	Kajal Bisht	Delhi	54	Goverment Job	700000	NA
12	Lalit Bisht	Ahmedabad	62	Farmer	500000	NA
13	Suresh Raghav	Chennai	33	Private Job	800000	NA
14	Dinesh Chauhan	Mumbai	44	Private Job	700000	NA
16	Krishna Nandan	Delhi	35	Goverment Job	2000000	NA
19	Naveen Bhati	Ahmedabad	59	Farmer	1400000	NA
20	Vivek Kushwaha	Ahmedabad	49	Private Job	300000	NA

5. Write a SQL statement to select parent whose annual_income is less than 5 lakhs otherwise age is more than 45.

Solution:-

Select * from tblparents

Where annual_income<500000 or age>45

mysql> select -> where	t * from tblparents annual_income<500000	or age>45;				
parent_id	parent_name	 city	age	occupation	annual_income	email_id
2 3 6 8 9 11 12 15 18 19 20	Karan Singh Gohan Khan Sunil Grover Sushi Roy Kajal Bisht Varun Gupta Lalit Bisht Ram Gopal Abhinandan Kargil Naveen Bhati Vivek Kushwaha	delhi Mumbai Ahmedabad Mumbai Delhi Karnataka Ahmedabad allahabad Patna Ahmedabad	48 52 46 41 54 63 62 55 61 59 49	Farmer Goverment Job Private Job Private Job Goverment Job Private Job Farmer Farmer Business Man Farmer Private Job	800000 1000000 300000 200000 700000 1700000 500000 1800000 1400000 300000	NA NA NA NA NA NA NA NA NA

6. Create students table with student_id, student_name, Math_marks, Science_marks, Parent_id here parent id is foreign key and make connected with parents table using primary key & foreign key

```
Solution:-
use student;
//table Creation
create table students(
student_id int not null,
student name varchar(25) not null,
math marks int not null,
science_marks int not null,
parent_id int not null,
primary key(student_id),
foreign key(parent id) references tblparents(parent id)
);
//Inserting Values in table
insert into students(student_id,student_name,math_marks,science_marks,parent_id)
values(1,'Raj Mehra',78,76,1),
(2,'Raj Mehra',78,76,1),
(3,'Gaurav',88,76,3),
(4,'Karan',98,76,1),
(5,'Sahil',78,87,3),
(6,'Amar',78,96,8),
(7,'Goku',78,66,2),
(8,'Nobita',71,76,10),
(9,'Chanchal',75,86,11),
(10, 'Ravi', 70, 72, 13);
Select * from students;
```

student_id	student_name	math_marks	science_marks	parent_id
1 2 3 4 5 6 7 8 9 10	Raj Mehra Raj Mehra Gaurav Karan Sahil Amar Goku Nobita Chanchal Ravi	78 78 88 98 78 78 78 71 75	76 76 76 76 76 87 96 66 76 86	1 1 3 1 3 8 2 10 11 13

/**The End**/