

SQL ASSIGNMENT

1. Create a table named tblParents in Student schema, the Create table definition will be as following (minimum 20 entries is required)

1. Parent_id
2. Parents_Name
3. City
4. Age
5. Annual_Income
6. Occupation
7. 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)
;
```

```
mysql> use student;
Database changed
mysql> select * from tblparents;
```

parent_id	parent_name	city	age	occupation	annual_income	email_id
1	Rohan Mehra	allahabad	42	Private Job	900000	NULL
2	Karan Singh	delhi	48	Farmer	800000	NULL
3	Gohan Khan	Mumbai	52	Goverment Job	1000000	NULL
4	Jahul Khan	chennai	32	Business Man	600000	NULL
5	Udit Narayan	faridabad	38	Private Job	1200000	NULL
6	Sunil Grover	Ahmedabad	46	Private Job	300000	NULL
7	Kapil Sharma	allahabad	44	Private Job	1100000	NULL
8	Sushi Roy	Mumbai	41	Private Job	200000	NULL
9	Kajal Bisht	Delhi	54	Goverment Job	700000	NULL
10	Sanjay Bisht	Banglore	37	Business Man	1400000	NULL
11	Varun Gupta	Karnataka	63	Private Job	1700000	NULL
12	Lalit Bisht	Ahmedabad	62	Farmer	500000	NULL
13	Suresh Raghav	Chennai	33	Private Job	800000	NULL
14	Dinesh Chauhan	Mumbai	44	Private Job	700000	NULL
15	Ram Gopal	allahabad	55	Farmer	1800000	NULL
16	Krishna Nandan	Delhi	35	Goverment Job	2000000	NULL
17	Jaspreet Singh	allahabad	43	Farmer	1100000	NULL
18	Abhinandan Kargil	Patna	61	Business Man	1800000	NULL
19	Naveen Bhati	Ahmedabad	59	Farmer	1400000	NULL
20	Vivek Kushwaha	Ahmedabad	49	Private Job	300000	NULL

```
20 rows in set (0.00 sec)

mysql> _
```

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;
```

parent_id	parent_name	city	age	occupation	annual_income	email_id
1	Rohan Mehra	allahabad	42	Private Job	900000	NA
2	Karan Singh	delhi	48	Farmer	800000	NA
3	Gohan Khan	Mumbai	52	Government Job	1000000	NA
4	Jahul Khan	chennai	32	Business Man	600000	NA
5	Udit Narayan	faridabad	38	Private Job	1200000	NA
6	Sunil Grover	Ahmedabad	46	Private Job	300000	NA
7	Kapil Sharma	allahabad	44	Private Job	1100000	NA
8	Sushi Roy	Mumbai	41	Private Job	200000	NA
9	Kajal Bisht	Delhi	54	Government Job	700000	NA
10	Sanjay Bisht	Bangalore	37	Business Man	1400000	NA
11	Varun Gupta	Karnataka	63	Private Job	1700000	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
15	Ram Gopal	allahabad	55	Farmer	1800000	NA
16	Krishna Nandan	Delhi	35	Government Job	2000000	NA
17	Jaspreet Singh	allahabad	43	Farmer	1100000	NA
18	Abhinandan Kargil	Patna	61	Business Man	1800000	NA
19	Naveen Bhati	Ahmedabad	59	Farmer	1400000	NA
20	Vivek Kushwaha	Ahmedabad	49	Private Job	300000	NA

```
20 rows in set (0.00 sec)
```

3. Count Number of parents whose annual_income is more than 6 lakhs

Solution:-

Select count(parent_id) from tblparents where annual_income>600000;

```
mysql> select count(parent_id)
-> from tblparents
-> where annual_income>600000;
```

count(parent_id)
15

```
1 row in set (0.00 sec)

mysql>
```

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');

```
mysql> 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	Government 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	Government 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	Government Job	2000000	NA
19	Naveen Bhati	Ahmedabad	59	Farmer	1400000	NA
20	Vivek Kushwaha	Ahmedabad	49	Private Job	300000	NA

12 rows in set (0.00 sec)

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 * from tblparents
-> where annual_income<500000 or age>45;
```

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

11 rows in set (0.00 sec)

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;
```

```
mysql> select * from students;
```

student_id	student_name	math_marks	science_marks	parent_id
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

```
10 rows in set (0.00 sec)
```