

**Q. 1) For facebook users, create a table with fields (id, name, city, country, age) make sure only age >= 18 users are able to register in the table.**

```
CREATE TABLE Facebook_User_SignIn{  
..  
age INT CHECK (age >= 18),  
..  
}
```

Ans:

**1) Creating a Table:**

```
mysql> Create table Facebook_User_SignIn(id int primary key, name  
varchar(50), password varchar(20), age int check(age >= 18), gender  
varchar(6));
```

Query OK, 0 rows affected (0.09 sec)

**2) Inserting Correct entries**

```
mysql> insert into Facebook_User_SignIn values(1, "Zulfa",  
"password", 21, "female");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Facebook_User_SignIn values(11, "John", "jpass",  
20, "male");
```

Query OK, 1 row affected (0.01 sec)

**3) Inserting entries with age < 18.**

```
mysql> insert into Facebook_User_SignIn values(12, "Adam",  
"apass", 16, "male");
```

ERROR 3819 (HY000): Check constraint 'facebook\_user\_signin\_chk\_1' is violated.

```
mysql> insert into Facebook_User_SignIn values(13, "Lexi", "lpass",  
13, "female");
```

ERROR 3819 (HY000): Check constraint 'facebook\_user\_signin\_chk\_1' is violated.

```
mysql> insert into Facebook_User_SignIn values(14, "Zain", "zpass",  
1, "male");
```

ERROR 3819 (HY000): Check constraint 'facebook\_user\_signin\_chk\_1' is violated.

#### **4) Again Inserting more correct entries.**

```
mysql> insert into Facebook_User_SignIn values(15, "Varun",  
"vpass", 18, "male");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Facebook_User_SignIn values(16, "Priya",  
"ppass", 48, "female");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Facebook_User_SignIn values(17, "Ram", "rpass",  
23, "male");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from Facebook_User_SignIn;
```

```
+---+-----+-----+-----+-----+  
| Id | name  | password | age | gender |  
+---+-----+-----+-----+-----+  
| 1  | Zulfa | password | 21 | female |  
| 11 | John  | jpass   | 20 | male   |  
| 15 | Varun | vpass   | 18 | male   |  
| 16 | Priya | ppass   | 48 | female |  
| 17 | Ram   | rpass   | 23 | male   |  
+---+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

**Q2)Alter facebook\_user\_registration table -add column email->and make sure only validated email with "@"&"." are allowed and with age>=18**

Ans:

**1) Altering table and adding email column with constraints.**

```
mysql> alter table Facebook_User_SignIn add emailid varchar(40)
check(emailid like "%@%" and emailid like "%.%");
```

Query OK, 5 rows affected (0.16 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from Facebook_User_SignIn;
```

Id	name	password	age	gender	emailid
1	Zulfa	password	21	female	NULL
11	John	jpas	20	male	NULL
15	Varun	vpas	18	male	NULL
16	Priya	ppas	48	female	NULL
17	Ram	rpas	23	male	NULL

5 rows in set (0.00 sec)

**2) Inserting correct email id into existing records.**

```
mysql> update Facebook_User_SignIn set emailid = "zattar@gm.com"
where id=1;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> update Facebook_User_SignIn set emailid = "john@g.com"
where id=11;
```

Query OK, 1 row affected (0.01 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

### 3) Inserting invalid email id into existing records.

```
mysql> update Facebook_User_SignIn set emailid = "varung.com"
where id=16;
ERROR 3819 (HY000): Check constraint facebook_'user_signin_chk_2' is
violated.
```

```
mysql> updateFacebook_User_SignIn set emailid = "ram@gcom"
where id=17;
ERROR 3819 (HY000): Check constraint 'facebook_user_signin_chk_2' is
violated.
```

```
mysql> update Facebook_User_SignIn set emailid = "priyacom"
where id=21;
ERROR 3819 (HY000): Check constraint 'facebook_user_signin_chk_2' is
violated.
```

### 4) Inserting invalid email id into new records.

```
mysql> insert into Facebook_User_SignIn values(28, "Alex", "vpass",
19, "male", "alexvcom");
ERROR 3819 (HY000): Check constraint 'facebook_user_signin_chk_2' is
violated.
```

### 5) Inserting valid email id into new records.

```
mysql> insert into Facebook_User_SignIn values(28, "Alex", "vpass",
19, "male", "alex@g.com");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Facebook_User_SignIn values(26, "Jeremy",
"jepass", 21, "male", "jeremy@g.com");
```

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from facebook\_User\_SignIn;**

	Id	name	password	age	gender	emailid
1	Zulfa	password	21	female	zattar@gm.com	
11	John	jpass	20	male	john@g.com	
15	Varun	vpas	18	male	varun@g.com	
16	Priya	ppas	48	female	NULL	
17	Ram	rpas	23	male	NULL	
26	Jeremy	jepas	21	male	jeremy@g.com	
28	Alex	vpas	19	male	alex@g.com	

8 rows in set (0.00 sec)