

## ASSIGNMENT 7

### Q1 : Check Constraint use in table FaceBook\_user\_registration

So Check Constraint is used to limit the value range that can be placed in a column, if you define a Check constraint on a column it will allow only certain value for this column, and if you define Check Constraint on a table it can limit the values in certain columns based on values in other column in the row

```
MariaDB [coditas]> create table facebook_user_registration
-> ( id int NOT NULL AUTO_INCREMENT,
-> name varchar(233),
-> country varchar(233),
-> age int check(age>=18),
-> primary key(id));
Query OK, 0 rows affected (1.326 sec)
```

```
MariaDB [coditas]> desc facebook_user_registration;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(233)	YES		NULL	
country	varchar(233)	YES		NULL	
age	int(11)	YES		NULL	

4 rows in set (0.446 sec)

Table is create with attribute id, name, country, age with check constraint attribute and the condition is age should be greater than or equals to 18

```
MariaDB [coditas]> insert into facebook_user_registration(name,country,age)values('anuj sundriyal','India',12);
ERROR 4025 (23000): CONSTRAINT 'facebook_user_registration.age' failed for 'coditas'. 'facebook_user_registration'
MariaDB [coditas]> insert into facebook_user_registration(name,country,age)values('anuj sundriyal','India',17);
ERROR 4025 (23000): CONSTRAINT 'facebook_user_registration.age' failed for 'coditas'. 'facebook_user_registration'
```

So this type of error will occur when you trying to insert age less than 18

```
MariaDB [coditas]> insert into facebook_user_registration(name,country,age)values('anuj sundriyal','India',18);
Query OK, 1 row affected (0.644 sec)

MariaDB [coditas]> insert into facebook_user_registration(name,country,age)values('anuj sundriyal','India',19);
Query OK, 1 row affected (0.137 sec)

MariaDB [coditas]> insert into facebook_user_registration(name,country,age)values('anuj sundriyal','India',89);
Query OK, 1 row affected (0.079 sec)
```

And if age is greater than or equals to 18 than it will return(Query OK, 1 row affected (0.068 sec))

## Q2 In this Question we have to show the use of like Operator for email Validation In SQL

Like Operator is used in a where clause to search for a specified pattern in a column. There are two wildcard often used in conjunction with like operator the percent(%) represent zero, one or multiple character. the underscore sign(\_) represents one, single character

```
MariaDB [coditas]> alter table facebook_user_registration add email varchar(233)check(email like '%@%.%');
Query OK, 0 rows affected (1.046 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [coditas]> desc facebook_user_registration;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id    | int(11)       | NO   | PRI | NULL    | auto_increment |
| name  | varchar(233)  | YES  |     | NULL    |                |
| country | varchar(233) | YES  |     | NULL    |                |
| age   | int(11)       | YES  |     | NULL    |                |
| email | varchar(233)  | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.051 sec)
```

In this example we have added a new column email with check constraint and like operator for validating email id(email id should have @ and . )

```
MariaDB [coditas]> insert into facebook_user_registration(name,country,age,email)values('anuj sundriyal','India',89,'anuj sundriyal@gmail.com');
ERROR 4025 (23000): CONSTRAINT `facebook_user_registration.email` failed for `coditas`.`facebook_user_registration`
MariaDB [coditas]> insert into facebook_user_registration(name,country,age,email)values('anuj sundriyal','India',89,'anuj sundriyal@gmailcom');
ERROR 4025 (23000): CONSTRAINT `facebook_user_registration.email` failed for `coditas`.`facebook_user_registration`
MariaDB [coditas]>
```

This error will occur if you try to insert email without @ or .

```
MariaDB [coditas]> insert into facebook_user_registration(age,email)values(18,'anajsundriyal@gmail.com');  
Query OK, 1 row affected (0.050 sec)
```

```
MariaDB [coditas]> insert into facebook_user_registration(age,email)values(20,'akashrawta12@gmail.com');  
Query OK, 1 row affected (0.153 sec)
```

If value is correct than you will get(Query OK, 1 row affected (0.153 sec)) this message

```
MariaDB [coditas]> insert into facebook_user_registration(name,country,age,email)values('anuj sundriyal','India',89,'anajsundriyal@gmail.com');  
Query OK, 1 row affected (0.168 sec)
```

```
MariaDB [coditas]> insert into facebook_user_registration(name,country,age,email)values('Akash Rawat','India',89,'akashrawat@gmail.in');  
Query OK, 1 row affected (0.052 sec)
```