

**1. Write a SQL statement to insert a record with your own value into the table countries against each columns.**

**Here in the following is the structure of the table countries.**

Field	Type	Null	Key	Default	Extra
COUNTRY_ID	varchar(2)	YES		NULL	
COUNTRY_NAME	varchar(40)	YES		NULL	
REGION_ID	decimal(10,0)	YES		NULL	

**Query:**

```
mysql> insert into tbl_country values (21, 'India', 123404);
```

**Output:**

Query OK, 1 row affected (0.00 sec)

**Query:**

```
mysql> insert into tbl_country values (26, 'China', 325241);
```

**Output:**

Query OK, 1 row affected (0.00 sec)

**Query:**

```
mysql> insert into tbl_country values (27, 'Brazil', 453271);
```

**Output:**

Query OK, 1 row affected (0.00 sec)

**Query:**

```
mysql> select * from tbl_country;
```

**Output:**

country_id	country_name	region_id
21	India	123404
26	China	325241
27	Brazil	453271

3 rows in set (0.00 sec)

**2. Write a SQL statement to insert one row into the table countries against the column country\_id and country\_name.**

**Here in the following is the structure of the table countries.**

Field	Type	Null	Key	Default	Extra
COUNTRY_ID	varchar(2)	YES		NULL	
COUNTRY_NAME	varchar(40)	YES		NULL	
REGION_ID	decimal(10,0)	YES		NULL	

**Query:**

```
mysql> insert into tbl_country (country_id, country_name) values (23, 'Sri Lanka');
```

**Output:**

Query OK, 1 row affected (0.00 sec)

**Query:**

```
mysql> select * from tbl_country;
```

**Output:**

country_id	country_name	region_id
21	India	123404
26	China	325241
27	Brazil	453271
23	Sri Lanka	NULL

4 rows in set (0.00 sec)

**3. Write a SQL statement to create a duplicate of countries table named country\_new with all structure and data.**

**Here in the following is the structure of the table countries.**

Field	Type	Null	Key	Default	Extra
COUNTRY_ID	varchar(2)	YES		NULL	
COUNTRY_NAME	varchar(40)	YES		NULL	
REGION_ID	decimal(10,0)	YES		NULL	

**Query:**

```
mysql> create table tbl_country_new (country_id varchar(2), country_name  
varchar(40), region_id decimal(10,0) );
```

**Output:**

Query OK, 0 rows affected (0.02 sec)

**Query:**

```
mysql> desc tbl_country_new;
```

**Output:**

Field	Type	Null	Key	Default	Extra
country_id	varchar(2)	YES		NULL	
country_name	varchar(40)	YES		NULL	
region_id	decimal(10,0)	YES		NULL	

3 rows in set (0.00 sec)

**4. Write a SQL statement to insert NULL values against region\_id column for a row of countries table.**

**Query:**

```
mysql> insert into tbl_country (country_id, country_name, region_id) values (23, 'Sri Lanka', null);
```

**Output:**

Query OK, 1 row affected (0.00 sec)

**Query:**

```
mysql> select * from tbl_country;
```

**Output:**

country_id	country_name	region_id
21	India	123404
26	China	325241
27	Brazil	453271
23	Sri Lanka	NULL

4 rows in set (0.00 sec)

**5. Write a SQL statement to insert 3 rows by a single insert statement.**

**Query:**

```
mysql> insert into tbl_country values (30, 'Bangladesh', 230328), (35, 'Russia', 298234), (40, 'Germany', 214830);
```

**Output:**

Query OK, 3 rows affected (0.00 sec)

Records: 3 Duplicates: 0 Warnings: 0

**Query:**

```
mysql> select * from tbl_country;
```

**Output:**

country_id	country_name	region_id
21	India	123404
26	China	325241
27	Brazil	453271
23	Sri Lanka	NULL
30	Bangladesh	230328
35	Russia	298234
40	Germany	214830

7 rows in set (0.00 sec)

**6. Write a SQL statement insert rows from country\_new table to countries table.**

**Here are the rows for the country\_new table. Assume that the country's table is empty.**

COUNTRY_ID	COUNTRY_NAME	REGION_ID
C0001	India	1001
C0002	USA	1007
C0003	UK	1003

**Query:**

```
mysql> insert into tbl_country_new (country_id, country_name, region_id) values ('c0001', 'India', 1001), ('c0002', 'USA', 1007), ('c0003', 'UK', 1003);
```

**Output:**

Query OK, 3 rows affected (0.00 sec)  
Records: 3 Duplicates: 0 Warnings: 0

**Query:**

```
mysql> select * from tbl_country_new;
```

**Output:**

country_id	country_name	region_id
c0001	India	1001
c0002	USA	1007
c0003	UK	1003

3 rows in set (0.00 sec)

**7. Write a SQL statement to insert one row in jobs table to ensure that no duplicate value will be entered in the job\_id column.**

**Query:**

```
mysql> select * from tbl_jobs;
```

**Output:**

job_id	job_title	min_salary	max_salary
11	Engineer	20000	40000
15	Teacher	10000	50000

2 rows in set (0.00 sec)

**Query:**

```
mysql> insert into tbl_jobs values (11, 'Doctor', 50000, 80000);
```

**Output:**

ERROR 1062 (23000): Duplicate entry '11' for key 'tbl\_jobs.PRIMARY'

**8. Write a SQL statement to insert one row in jobs table to ensure that no duplicate value will be entered in the job\_id column.**

**Query:**

```
mysql> select * from tbl_jobs;
```

**Output:**

job_id	job_title	min_salary	max_salary
11	Engineer	20000	40000
15	Teacher	10000	50000

2 rows in set (0.00 sec)

**Query:**

```
mysql> insert into tbl_jobs values (11, 'Doctor', 50000, 80000);
```

**Output:**

ERROR 1062 (23000): Duplicate entry '11' for key 'tbl\_jobs.PRIMARY'

**9. Write a SQL statement to insert a record into the table countries to ensure that a country\_id and region\_id combination will be entered once in the table.**

**Query:**

```
mysql> insert into tbl_country_new (country_id, country_name, region_id) values ('c0001', 'SriLanka', 1001);
```

**Output:**

ERROR 1062 (23000): Duplicate entry 'c0001-1001' for key 'tbl\_country\_new.PRIMARY'

**10. Write a SQL statement to insert rows into the table countries in which the value of the country\_id column will be unique and auto incremented.**

**Query:**

```
mysql> create table tbl_country_new (country_id int primary key auto_increment, country_name varchar(40), region_id decimal(10,0));
```

**Output:**

Query OK, 0 rows affected (0.02 sec)

**Query:**

```
mysql> insert into tbl_country_new values (11, 'India', 1001);
```

**Output:**

Query OK, 1 row affected (0.01 sec)

**Query:**

```
mysql> insert into tbl_country_new (country_name, region_id) values ('Japan', 1007);
```

**Output:**

Query OK, 1 row affected (0.00 sec)

**Query:**

```
mysql> select * from tbl_country_new;
```

**Output:**

country_id	country_name	region_id
11	India	1001
12	Japan	1007

2 rows in set (0.00 sec)

**11. Write a SQL statement to insert records into the table countries to ensure that the country\_id column will not contain any duplicate data and this will be automatically incremented and the column country\_name will be filled up by 'N/A' if no value assigned for that column.**

**Query:**

```
mysql> create table tbl_country_new (country_id int primary key auto_increment,  
country_name varchar(40) default 'N/A', region_id decimal(10,0));
```

**Output:**

Query OK, 0 rows affected (0.01 sec)

**Query:**

```
mysql> insert into tbl_country_new values (11, 'India', 1001);
```

**Output:**

Query OK, 1 row affected (0.00 sec)



**Query:**

```
mysql> insert into tbl_country_new (region_id) values ( 1007);
```

**Output:**

Query OK, 1 row affected (0.01 sec)

**Query:**

```
mysql> select * from tbl_country_new;
```

**Output:**

```
+-----+-----+-----+
| country_id | country_name | region_id |
+-----+-----+-----+
|      11 | India      |      1001 |
|      12 | N/A       |      1007 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

**12. Write a SQL statement to insert rows in the job\_history table in which one column job\_id is containing those values which exist in the job\_id column of the jobs table.**

**Query:**

```
mysql> select * from tbl_jobs;
```

**Output:**

```
+-----+-----+-----+-----+
| job_id | job_title | min_salary | max_salary |
+-----+-----+-----+-----+
|      11 | Engineer  |      20000 |      40000 |
|      15 | Teacher   |      10000 |      50000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

**Query:**

```
mysql> create table tbl_history (empId int primary key, job_id int, dept_id int, foreign
key (job_id) references tbl_jobs (job_id));
```

**Output:**

Query OK, 0 rows affected (0.01 sec)

**Query:**

```
mysql> insert into tbl_history values(101, 11, 60);
```

**Output:**

Query OK, 1 row affected (0.00 sec)

**Query:**

```
mysql> select * from tbl_history;
```

**Output:**

empId	job_id	dept_id
101	11	60

1 row in set (0.00 sec)