1. Write a SQL statement to insert a record with your own value into the table countries against each column.
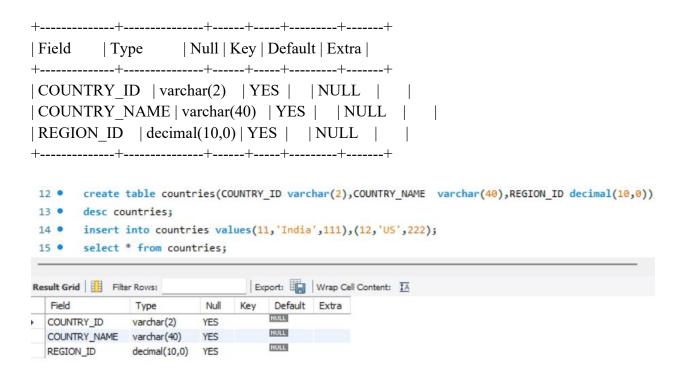
Here in the following is the structure of the table countries.

```
+--------------+---------------+------+-----+---------+-------+
| 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    |       |
+--------------+---------------+------+-----+---------+-------+
```

```
12 •    create table countries(COUNTRY_ID varchar(2),COUNTRY_NAME  varchar(40),REGION_ID decimal(10,0))
13 •    desc countries;
14 •    insert into countries values(11,'India',111),(12,'US',222);
15 •    select * from countries;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⬚

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	

2. Write a SQL statement to insert one row into the table countries against the column country_id and country_name.

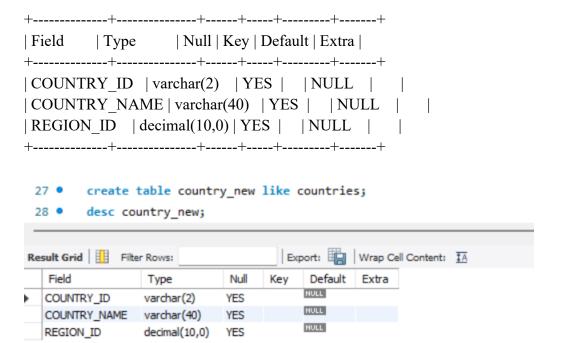Here in the following is the structure of the table countries.

```
+--------------+---------------+------+-----+---------+-------+
| 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    |       |
+--------------+---------------+------+-----+---------+-------+
```
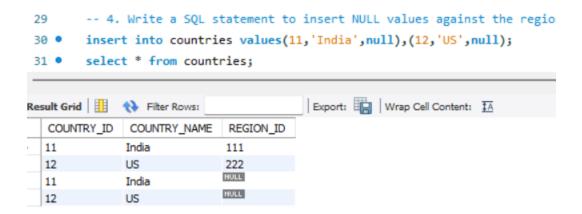
```
12 •   create table countries(COUNTRY_ID varchar(2),COUNTRY_NAME  varchar(40),REGION_ID decimal(10,0));
13 •   desc countries;
14 •   insert into countries values(11,'India',111),(12,'US',222);
15 •   select * from countries;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

COUNTRY_ID	COUNTRY_NAME	REGION_ID
11	India	111
12	US	222

3. Write a SQL statement to create duplicate of countries table named country_new with all structure and data.

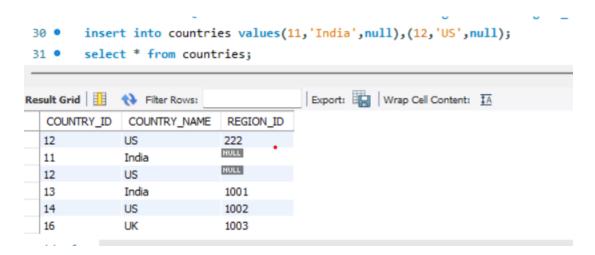Here in the following is the structure of the table countries.

```
+--------------+---------------+------+-----+---------+-------+
| 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    |       |
+--------------+---------------+------+-----+---------+-------+
```

```
27 •   create table country_new like countries;
28 •   desc country_new;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

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	

4. Write a SQL statement to insert NULL values against the region_id column for a row of countries table.

```
29        -- 4. Write a SQL statement to insert NULL values against the regio
30  •     insert into countries values(11,'India',null),(12,'US',null);
31  •     select * from countries;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

COUNTRY_ID	COUNTRY_NAME	REGION_ID
11	India	111
12	US	222
11	India	NULL
12	US	NULL

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

```
30  •     insert into countries values(11,'India',null),(12,'US',null);
31  •     select * from countries;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

COUNTRY_ID	COUNTRY_NAME	REGION_ID
12	US	222
11	India	NULL
12	US	NULL
13	India	1001
14	US	1002
16	UK	1003

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 |
+------------+-------------+-----------+

```
--      ,
52 •    insert into countries(COUNTRY_ID,COUNTRY_NAME,REGION_ID) select COUNTRY_ID,COUNTRY_NAME,REGION_ID from country_new;
53 •    select * from countries;
```

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

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.

```
62
63      -- 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.
64 •    insert into jobs values(1,'DEVELOPER',12333,678890),(2,'Tester',87900,90000);
65 •    insert into jobs values(1,'SDE',12000,67000);
```

Output

Action Output

#	Time	Action		Message
✓	115 12:46:28	CREATE TABLE jobs (job_id VARCHAR(10) PRIMARY KEY, job_title VARCHAR(50) unique,	m...	0 row(s) affected
✓	116 12:47:28	insert into jobs values(1,'DEVELOPER',12333,678890),(2,'Tester',87900,90000)		2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0
✗	117 12:48:05	insert into jobs values(1,'SDE',12000,67000)		Error Code: 1062. Duplicate entry '1' for key '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.

```
62
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Output

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✗	117 12:48:05	insert into jobs values(1,'SDE',12000,67000)		Error Code: 1062. Duplicate entry '1' for key '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.

```
70      -- 9. Write a SQL statement to insert a record into the table countries to ensure that, a country_id and region_id combination w
71 •    alter table countries add constraint unique(country_id,region_id);
--      I
```

Output

Action Output ▾

#	Time	Action	Message
✓	128 14:04:46	select * from countries LIMIT 0, 1000	5 row(s) returned
✓	129 14:05:02	desc countries	3 row(s) returned
✓	130 14:09:43	alter table countries add constraint unique(country_id,region_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

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

```
1       -- 10. Write a SQL statement to insert rows into the table countries in which the value of count
2 •     alter table countries modify country_id int auto_increment unique;
```

out

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.

```
77    ⌐  incremented and the column country_name will be filled up by 'N/A' if no value assigned for that column.*/
78 •     alter table countries modify country_id int auto_increment unique,modify country_name varchar(40) default 'N/A';
79
```

12. Write a SQL statement to insert rows in the job_history table in which one column job_id is containing those values which are exists in job_id column of jobs table.

```
557     -- 12. Write a SQL statement to insert rows in the job_history table
558     -- in which one column job_id is containing those values which are exists in job_id column of jobs table.
559  •  desc job_history;
560  •  insert into  job_history values('101', '1989-09-9', '1993-10-27', 'AC_ACCOUNT', '110'),('114', '1998-03-24', '1999-12-31', 'ST_CLERK', '5
561     ('122', '1999-01-01', '1999-12-31', 'ST_CLERK', '50'),('200', '1987-09-17', '1993-06-17', 'AD_ASST', '90');
562
```

Output

Action Output   ▾

#	Time	Action	Message
✓	139 14:23:36	insert into job_history values('101', '1999-09-9', '2002-10-27', 'AC_ACCOUNT', '110')	1 row(s) affected
✓	140 14:23:51	insert into job_history values('101', '1989-09-9', '1993-10-27', 'AC_ACCOUNT', '110')	1 row(s) affected
✗	141 14:25:28	insert into job_history values('101', '1989-09-9', '1993-10-27', 'AC_ACCOUNT', '110'),('114', '1998-03-24'...	Error Code: 1062. Duplicate entry '101-1989-09-09' for key 'job_history.PRIMARY'

13. Write a SQL statement to insert rows into the table employees in which a set of columns department_id and manager_id contains a unique value and that combined values must have existed into the table departments.

```
83    which a set of columns department_id and manager_id contains a unique value and that combined values must have existed into the table departments.*/
84  • alter table  employees add constraint unique(department_id,manager_id);
85  • insert into employees(employee_id,start_date,end_date,job_id,department_id) values(101,'1987-06-18','1999-06-18','Dev',98),(101,'1987-06-18','1999-06-18','Dev',98);
```

14. Write a SQL statement to insert rows into the table employees in which a set of columns department_id and job_id contains the values which must have exists into the table departments and jobs.

```
88    which a set of columns department_id and job_id contains the values which must have exists into the
89  • insert into employees(job_id,department_id) values('Dev',90),('Dev',98);
```