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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.

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.

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

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

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

6. Write a SQL statement insert rows from country_new table to countries table.

Here is the rows for country_new table. Assume that, the countries table is empty.

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

```
mysql> insert into jobs values(1001,'OFFICER',8000,9000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into jobs values(1001,'OFFICER',8000,9000);
ERROR 1062 (23000): Duplicate entry '1001' 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.

```
mysql> insert into jobs values(1001,'OFFICER',8000,9000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into jobs values(1001,'OFFICER',8000,9000);
ERROR 1062 (23000): Duplicate entry '1001' for key 'jobs.PRIMARY'
mysql>
```

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.

```
mysql> INSERT INTO countries2 VALUES(50,'Italy',18);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO countries2 VALUES(50,'Italy',18);
ERROR 1062 (23000): Duplicate entry '50-18' for key 'countries2.country_id'

mysql>
```

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.

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.

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.

```
mysql> CREATE TABLE jobs4 ( JOB_ID integer NOT NULL UNIQUE PRIMARY KEY, JOB_TITLE varchar(35) NOT NULL DEFAULT ' '
MIN_SALARY decimal(6,0) DEFAULT 8000, MAX_SALARY decimal(6,0) DEFAULT 20000);
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO jobs4(JOB_ID,JOB_TITLE) VALUES((1001,'OFFICER'),(1002,'CLERK'));
ERROR 1241 (21000): Operand should contain 1 column(s)
mysql> INSERT INTO jobs4(JOB_ID,JOB_TITLE) VALUES(1001,'OFFICER');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO jobs4(JOB_ID,JOB_TITLE) VALUES(1002,'CLERK');
Query OK, 1 row affected (0.00 sec)
```

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 exists into the table departments.

```
sql> CREATE TABLE departments ( DEPARTMENT_ID integer NOT NULL UNIQUE, DEPARTMENT_NAME varchar(30) NOT NULL, MANA
GER_ID integer , LOCATION_ID integer DEFAULT NULL, PRIMARY KEY (DEPARTMENT_ID,MANAGER_ID) );
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO departments VALUES(60, 'SALES', 201, 89);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO departments VALUES(61,'ACCOUNTS',201,89);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO departments VALUES(80,'FINANCE',211,90);
Query OK, 1 row affected (0.00 sec)
nysql> SELECT * FROM departments;
 DEPARTMENT_ID | DEPARTMENT_NAME | MANAGER_ID | LOCATION_ID |
            60 | SALES
                                           201
            61 | ACCOUNTS
                                                          89
            80 | FINANCE
                                                          90
 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE employees3 ( EMPLOYEE_ID integer NOT NULL PRIMARY KEY, FIRST_NAME varchar(20) DEFAULT NULL, LAS
T_NAME varchar(25) NOT NULL, JOB_ID varchar(10) NOT NULL, SALARY decimal(8,2) DEFAULT NULL, MANAGER_ID integer NOT
NULL, DEPARTMENT_ID integer NOT NULL, FOREIGN KEY(DEPARTMENT_ID,MANAGER_ID) REFERENCES departments(DEPARTMENT_ID,M
ANAGER_ID));
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO employees3 VALUES(510, 'Alex', 'Hanes', 'CLERK', 18000, 201, 60);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO employees3 VALUES(511,'Kim','Leon','CLERK',18000,211,80);
Query OK, 1 row affected (0.00 sec)
mysql> SELECT * FROM employees3;
 EMPLOYEE_ID | FIRST_NAME | LAST_NAME | JOB_ID | SALARY | MANAGER_ID | DEPARTMENT_ID |
           510 | Alex
511 | Kim
                                            CLERK
                               Hanes
                                                       18000.00
                                                                                                 60
                                                                              201
                                            | CLERK | 18000.00
                               Leon
                                                                              211
                                                                                                 80
2 rows in set (0.00 sec)
```

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.

```
wysql> create table job( job_id integer not null unique primary key,job_title varchar(35) not null default' ',min_salary decimal(6,0) default 8000,max_salary decimal(6,0) default 20000)
Query OK, 0 rows affected (0.02 sec)

mysql> insert into job (job_id,job_title)values(1001,'Officer');
Query OK, 1 row affected (0.01 sec)

mysql> insert into job (job_id,job_title)values(1002,'Clerk');
Query OK, 1 row affected (0.00 sec)

mysql> select * from job;

| job_id| job_title | min_salary | max_salary |

| 1001 | Officer | 8000 | 20000 |

| 1002 | Clerk | 8000 | 20000 |

2 rows in set (0.00 sec)
```