Employee Name: Hephzibah. S

Employee ID: 11966

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.

+	•			Null	Ke	у	Default	Extra	•
COUNTRY_ID COUNTRY_NAME REGION_ID	İ	varchar(2)	 	YES YES	' 		NULL NULL 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.

+	+	N	ull	Key	Default	Extra
COUNTRY_ID COUNTRY_NAME REGION_ID		Y Y	ES ES		NULL NULL	

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.

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.

```
mysql> CREATE TABLE countries5 (COUNTRY_ID varchar(5) NOT NULL,COUNTRY_NAME varchar(40) NOT NULL,REGION_ID integer NOT NULL,PRIMARY KEY (COUNTRY_ID,REGION_ID));
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO countries5 VALUES('C0001','India',1001),('C0002','USA',1007),('C0003','UK',1003);
Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from countries5;

| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
| C0001 | India | 1001 |
| C0002 | USA | 1007 |
| C0003 | UK | 1003 |
| Tows in set (0.00 sec)
```

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		_	
+-		+-		+-		+
	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.

```
ysql> 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)
mysql> SELECT * FROM departments;
 DEPARTMENT_ID | DEPARTMENT_NAME | MANAGER_ID | LOCATION_ID |
             60 | SALES
                                             201
                                                             89
             61 | ACCOUNTS
                                             201
                                                             89
             80 | FINANCE
                                                             90
                                             211
3 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.

```
positions. communication of exists departs (department_id integer not mull unique,department_name varchar(30) not null, manager_id integer default null,location_id integer default null, primary key(department_id) journy OK, 0 rows affected (0.03 sec)

possil insert into departments values(60, 'Sales', 201, 80);

ERROR 1366 (MY000): Incorrect decimal value: 'Sales' for column 'department_name' at row 1

possily insert into departs values(60, 'Sales', 201, 80);

Parry OK, 1 row affected (0.01 sec)

possily insert into departs values(61, 'Accounts', 201, 80);

Parry OK, 1 row affected (0.05 sec)

possil insert into departs values(61, 'Accounts', 201, 80);

Possil insert into departs values(61, 40);

Possil insert into departs values(61, 4
```

```
mysql> 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);

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)
```