Q2) World Music Association Database

1) **Create database**

```
mysql> create database World_Music_Association_Db;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+----------------------------+
| Database                   |
+----------------------------+
| college_management_system  |
| dbmsassignment             |
| event_management_db        |
| general_hardware_db        |
| information_schema         |
| lib_db                     |
| mysql                      |
| performance_schema         |
| sys                        |
| world_music_association_db |
+----------------------------+
10 rows in set (0.00 sec)
```

2) **Create table orchestra.**

   mysql> use world_music_association_db;

   Database changed

   mysql> create table Orchestra(Orchestra_Name var char(50) not null primary key,city var char (40) not null,Country var char(40) not null,Music_Director varchar(40) not null);

```
mysql> desc orchestra;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| Orchestra_Name | varchar(50) | NO   | PRI | NULL    |       |
| city           | varchar(40) | NO   |     | NULL    |       |
| Country        | varchar(40) | NO   |     | NULL    |       |
| Music_Director | varchar(40) | NO   |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

3) **Create table musician.**

mysql> create table Musician(Musician_Number int primary key,Musician_Name varchar(40) not null,Instrument varchar(40) not null,Annual_salary int not null,Orchestra_Name varchar(40) not null, foreign key(Orchestra_Name) references orchestra(Orchestra_Name));

Query OK, 0 rows affected (0.05 sec)

```
mysql> desc Musician;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| Musician_Number | int         | NO   | PRI | NULL    |       |
| Musician_Name   | varchar(40) | NO   |     | NULL    |       |
| Instrument      | varchar(40) | NO   |     | NULL    |       |
| Annual_salary   | int         | NO   |     | NULL    |       |
| Orchestra_Name  | varchar(40) | NO   | MUL | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> create table Degree(Musician_Number int ,
```

4) **Create table degree.**

create table Degree (musician_number int, degree varchar(50), university_year int, primary key(musician_number, degree), foreign key(musician_number) references musician(musician_number));

```
mysql> desc degree;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| musician_number | int         | NO   | PRI | NULL    |       |
| degree          | varchar(50) | NO   | PRI | NULL    |       |
| university_year | int         | YES  |     | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql>
```

5) **create table composer.**

mysql> create table Composer (composer_name varchar(40) primary key, country varchar(50) not null, date_of_birth date not null);

Query OK, 0 rows affected (0.02 sec)

```
mysql> desc composer;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| composer_name | varchar(40) | NO   | PRI | NULL    |       |
| country       | varchar(50) | NO   |     | NULL    |       |
| date_of_birth | date        | NO   |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql>
```

6) **create table composition**

mysql> Create table Composition (composition_name varchar(50),composer_name varchar(50),year int not null,primary key(composition_name, composer_name),foreign key(composer_name) references Composer(composer_name));

Query OK, 0 rows affected (0.03 sec)

```
mysql> desc composition;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| composition_name | varchar(50) | NO   | PRI | NULL    |       |
| composer_name    | varchar(50) | NO   | PRI | NULL    |       |
| year             | int         | NO   |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

7)create table recording.

mysql> create table Recording (orchestra_name varchar(50) not null, composition_name varchar(50) not null, composer_name varchar(50) not null, year int not null, price float not null ,primary key(orchestra_name, composition_name, composer_name), foreign key(orchestra_name) references orchestra(orchestra_name), foreign key(composition_name, composer_name) references Composition(composition_name, composer_name));

Query OK, 0 rows affected (0.03 sec)

```
mysql> desc recording;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| orchestra_name   | varchar(50) | NO   | PRI | NULL    |       |
| composition_name | varchar(50) | NO   | PRI | NULL    |       |
| composer_name    | varchar(50) | NO   | PRI | NULL    |       |
| year             | int         | NO   |     | NULL    |       |
| price            | float       | NO   |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql>
```