

Introduction

Entertainment Virginia is a small business that is in Northern Virginia which presents several plays for the community throughout the year. Due to the success of the company over the past 5 years, there has been a great demand for more performances. The success has also attracted several new sponsors to fund the performances. To accommodate this high demand for performances, Entertainment Virginia decided to create a database to store, retrieve, analyze, and manage their data on plays, performers, directors, and sponsors. The purpose of this project is to help Entertainment Virginia create a database management information system better to manage the company's large amount of data. To create the database, the first step was to gather important data such as performers' full name and contact information, directors' full name and contact information, play name, type, and length, sponsor's company name, type of business, and contact information. This large amount of data was provided to us by Entertainment Virginia. By using the data provided to us, we were able to create distinct tables that contained crucial information for the performers, sponsors, directors, and plays using SQL statements. Once the data was entered into the database, a test run was performed to ensure data integrity and to make sure that the database ran smoothly. After the test run was performed, the finished database design was presented to the president for review and to make sure the new database fulfilled and satisfied the needs and requirements of Entertainment Virginia.

We had two parts to implement the relevant SQL statements. In the first part, we used all SQL statements to create and populate the designed database. In the second part, we used relevant SQL statements to reproduce sample reports 1, 2, 3, and 4.

1st part: (see MYSQL table 1 - 12)

1. To create the database container called 'entertainment', we followed the statement-

create database entertainment;

2. We checked that the database was created by using the MySQL show command to list all databases.

show databases;

3. To access (use) the entertainment database, we followed the MySQL statement -

use entertainment;

4. Then we created the six tables director, play, performer, sponsor, playperformer and playsponsor (the data type for all fields is varchar except sponsorid, which is smallint) by following these MYSQL statements -

create table director

```
(directorid    varchar(4) primary key,  
directorfn    varchar(8),  
directorln    varchar(12),  
directorphone varchar(12),  
directoremail varchar(20));
```

create table play

```
(playid        varchar(4) primary key,  
playname      varchar(15),  
playlength    varchar(7),  
playtype      varchar(7),  
directorid    varchar(4) not null);
```

create table performer

```
(performerid   varchar(4) primary key,  
performerfn    varchar(7),  
performerln    varchar(10),  
performerphone varchar(12),  
performeremail varchar(20));
```

create table sponsor

```
(sponsorid     smallint(4) unsigned not null,  
companyname   varchar(15),  
sponsorfn     varchar(5),  
sponsorln     varchar(6),  
sponsorphone  varchar(12),  
typeofbusiness varchar(15)
```

Primary key(sponsorid));

create table playperformer

(playid varchar(4) not null,
performerid varchar(4) not null);

create table playsponsor

(playid varchar(4) not null,
sponsorid smallint(4) unsigned not null);

5. After creating all the tables, we checked that the tables were created by using the MySQL show command to list all tables.

show tables;

6. Then we checked that the tables were created as planned using MySQL desc statements. It showed metadata for each table like the names of the fields, data types, primary key field.

desc director;

desc play;

desc performer;

desc sponsor;

desc playperformer;

desc playsponsor;

7. We Inserted data into the appropriate tables by following this statement

insert into director values

("D100", "William", "Shakespear", "800-555-1678", "shakes@directs.com"),
("D200", "Theodore", "Limited", "800-555-0000", "theo@directs.com"),
("D300", "Sheila", "Patterson", "800-555-1414", "sheila@directs.com"),
("D400", "Julie", "Wonderful", "800-555-8888", "julie@directs.com"),
("D500", "Benjamin", "Pretend", "800-555-7890", "pretend@directs.com");

insert into play values

("P111", "Hello Dolly", "2 hours", "Musical", "D100"),
("P222", "The King and I", "2 hours", "Musical", "D100"),
("P333", "Serious Skits", "1 hour", "Drama", "D200"),
("P444", "Happy Hour", "1 hour", "Comedy", "D300"),
("P555", "Happy Days", "3 hours", "Drama", "D100"),
("P666", "On a Carousel", "2 hours", "Comedy", "D300"),
("P777", "Rent", "2 hours", "Musical", "D400"),

("P888", "West Side Story", "2 hours", "Musical", "D500"),
("P999", "Home Run!", "1 hour", "Drama", "D500");

insert into performer values

("A101", "Beth", "Activision", "703-555-1888", "beth@beth.com"),
("A102", "Mark", "Activision", "703-555-1888", "mark@mark.com"),
("A103", "Seth", "Adams", "703-555-1288", "seth@seth.com"),
("A104", "Peter", "Zimmers", "703-555-3434", "peter@peter.com"),
("A105", "Susan", "Smith", "703-555-4343", "sue@sue.com"),
("A106", "Susan", "peters", "703-555-5454", "susan@susan.com"),
("A107", "William", "Henry", "703-555-5555", "william@william.com"),
("A108", "Lou", "Smith", "703-555-0001", "lou@lou.com"),
("A109", "Pat", "Bender", "703-555-9000", "pat@pat.com"),
("A110", "Sally", "Fence", "703-555-9030", "sally@sally.com"),
("A111", "John", "Jacobs", "703-555-9031", "john@john.com"),
("A112", "Adam", "Quinn", "703-555-8991", "adam@adam.com");

insert into sponsor values

(1020, "Best Eats Here", "Sean", "Bud", "703-555-2222", "Fast Food"),
(1040, "Burgers R us", "Bill", "Rogers", "703-555-1212", "Fast Food"),
(1060, "Business Buy", "Joe", "Dream", "703-555-3456", "Electronics"),
(1070, "Coasters Haven", "Mary", "Clark", "703-555-3456", "Amusement Park"),
(1010, "Gadgets Inc.", "Joe", "Smith", "703-555-1234", "Electronics"),
(1050, "The Tax Store", "Kim", "Lee", "703-555-8888", "Tax Services"),
(1030, "Water Fun", "Helen", "Smith", "703-555-3333", "Amusement Park");

insert into playperformer values

("P555", "A101"),
("P555", "A102"),
("P555", "A103"),
("P555", "A104"),
("P555", "A105"),
("P555", "A106"),
("P555", "A107"),
("P555", "A108"),
("P555", "A109"),
("P444", "A103"),
("P444", "A104"),
("P444", "A105"),
("P111", "A101"),
("P111", "A102"),
("P111", "A106"),
("P111", "A107"),

("P111", "A105"),
("P111", "A111"),
("P111", "A112"),
("P999", "A110"),
("P999", "A111"),
("P999", "A112"),
("P666", "A103"),
("P666", "A104"),
("P666", "A107"),
("P666", "A110"),
("P666", "A111"),
("P666", "A112"),
("P666", "A101"),
("P666", "A102"),
("P666", "A104"),
("P666", "A107"),
("P666", "A112"),
("P333", "A110"),

("P333", "A111"),
("P333", "A112"),
("P222", "A103"),
("P222", "A104"),
("P222", "A105"),
("P222", "A106"),
("P222", "A107"),
("P222", "A109"),
("P888", "A107"),
("P888", "A105"),
("P888", "A111"),
("P888", "A112");

insert into playsponsor values

("P555", 1040),
("P555", 1060),
("P444", 1050),
("P444", 1070),
("P444", 1010),
("P111", 1050),
("P111", 1030),

```
("P111", 1010),  
("P999", 1070),  
("P999", 1010),  
("P999", 1030),  
("P999", 1050),  
("P999", 1020),  
("P666", 1040),  
("P666", 1050),  
("P666", 1040),  
("P333", 1040),  
("P333", 1070),  
("P333", 1060),  
("P333", 1030),  
("P222", 1060),  
("P222", 1020),  
("P222", 1070),  
("P888", 1010),  
("P888", 1070);
```

8. To ensure that the data was entered correctly, we used MySQL select statement to list all of the data in each of the tables.

```
select * from director;  
select * from play;  
select * from performer;  
select * from sponsor;  
select * from playperformer;  
select * from playsponsor;
```

2nd part: (see MYSQL table 13- 16)

To reproduce the sample reports 1, 2, 3, and 4, we followed 4 SQL statements.

Sample Report -1

To display the performer's last name , first name and phone number of all performers in the database sorted by performer name, we followed the statement -

```
Select performerln, performerfn, performerphone from performer  
order by performerln;
```

Sample Report - 2

To display companyname, first name, last name, phone number, we followed the below SQL statement -

Select companyname, sponsorfn, sponsorln, sponsorphone
from sponsor
order by company name;

Sample Report - 3

To reproduce sample report 3, we did inner join. We joined the director table and the play table on the directorid field in common. We sorted it by director last name. Therefore, our SQL statement was -

Select d. directorln, d.directorfn, p. playname, p. playtype
from director d, play p
where d. directorid = p. directorid
order by directorln;

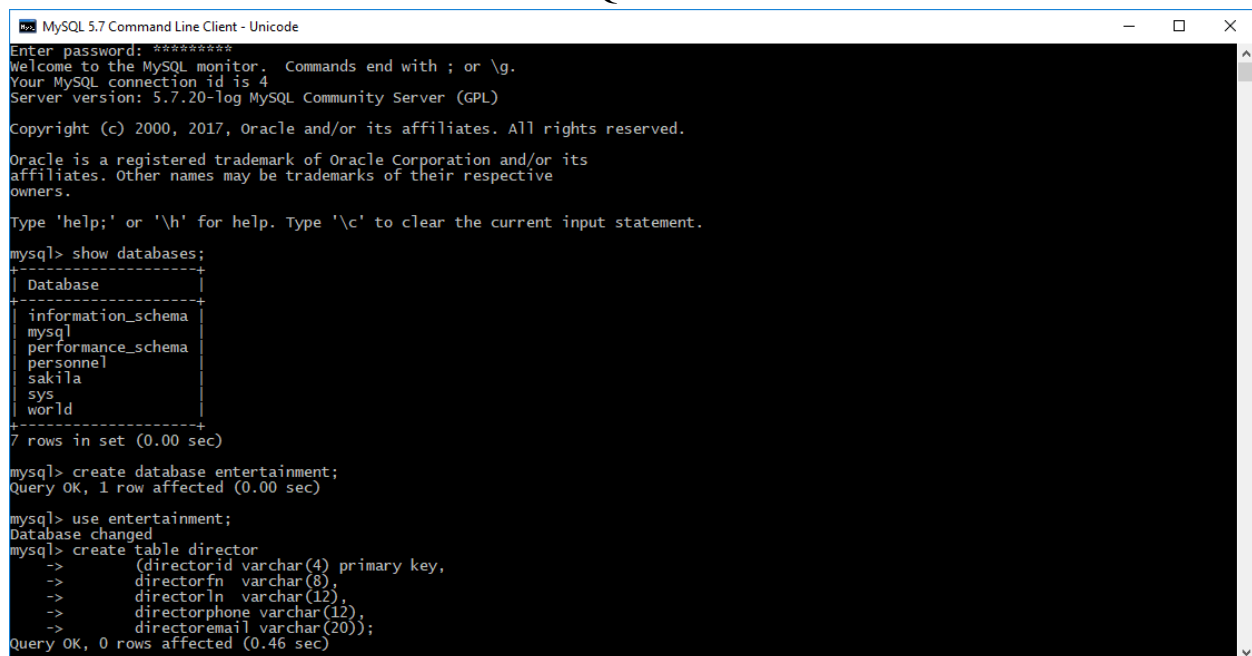
Sample Report - 4

To reproduce sample report 4, we joined tables with intersection. We joined 3 tables which were play, sponsor and playsponsor. Table play and playsponsor had a common field that was playid and table sponsor had a common field with table playsponsor which was sponsorid. We sorted everything by play name. So, we used following SQL statement -

select p. playname, p. playtype, s. companyname, s. typeofbusiness
from play p, sponsor s, playsponsor ps
where p. playid = ps playid and s. sponsorid = ps. Sponsorid
order by playname;

Screenshot of our MYSQL

MYSQL table -1



```
MySQL 5.7 Command Line Client - Unicode
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.7.20-log MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| personnel |
| sakila |
| sys |
| world |
+-----+
7 rows in set (0.00 sec)

mysql> create database entertainment;
Query OK, 1 row affected (0.00 sec)

mysql> use entertainment;
Database changed
mysql> create table director
-> (directorid varchar(4) primary key,
-> directorfn varchar(8),
-> directorln varchar(12),
-> directorphone varchar(12),
-> directoremail varchar(20));
Query OK, 0 rows affected (0.46 sec)
```

```
MySQL 5.7 Command Line Client - Unicode
mysql> create table play
-> (playid varchar(4) primary key,
-> playname varchar(15),
-> playlength varchar(7),
-> playtype varchar(7),
-> directoid varchar(4));
Query OK, 0 rows affected (0.44 sec)

mysql> create table performer
-> (performerid varchar(4) primary key,
-> performerfn varchar(7),
-> performerln varchar(10),
-> performerphone varchar(12),
-> performeremail varchar(20));
Query OK, 0 rows affected (0.44 sec)

mysql> create table sponsor
-> (sponsoid smallint(4) primary key,
-> companyname varchar(15),
-> sponsorn varchar(5),
-> sponsorn varchar(6),
-> sponsorphone varchar(12),
-> typeofbusiness varchar(15));
Query OK, 0 rows affected (0.36 sec)

mysql> create table playperformer
-> (playid varchar(4),
-> performerid varchar(4));
Query OK, 0 rows affected (0.38 sec)
```

```
MySQL 5.7 Command Line Client - Unicode
mysql> create table playsponsor
-> (playid varchar(4),
-> sponsoid smallint(4));
Query OK, 0 rows affected (0.38 sec)

mysql> show tables;
+-----+
| Tables_in_entertainment |
+-----+
| director                 |
| performer                |
| play                     |
| playperformer            |
| playsponsor              |
| sponsor                  |
+-----+
6 rows in set (0.00 sec)

mysql> desc director;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| directorid | varchar(4) | NO | PRI | NULL | |
| directorfn | varchar(8) | YES | | NULL | |
| directorln | varchar(12) | YES | | NULL | |
| directorphone | varchar(12) | YES | | NULL | |
| directoremail | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> desc play;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| playid | varchar(4) | NO | PRI | NULL | |
| playname | varchar(15) | YES | | NULL | |
| playlength | varchar(7) | YES | | NULL | |
| playtype | varchar(7) | YES | | NULL | |
| directoid | varchar(4) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```



```
MySQL 5.7 Command Line Client
mysql> show tables;
+-----+
| Tables_in_entertainment |
+-----+
| director                 |
| performer                |
| play                     |
| playperformer            |
| playsponsor              |
| sponsor                  |
+-----+
6 rows in set (0.00 sec)

mysql> desc director;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| directorid | varchar(4) | NO   | PRI | NULL    |       |
| directorfn | varchar(8) | YES  |     | NULL    |       |
| directorln | varchar(12)| YES  |     | NULL    |       |
| directorphone | varchar(12)| YES  |     | NULL    |       |
| directoremail | varchar(20)| YES  |     | NULL    |       |
+-----+
5 rows in set (0.00 sec)

mysql> desc play;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| playid     | varchar(4) | NO   | PRI | NULL    |       |
| playname   | varchar(15)| YES  |     | NULL    |       |
| playlength | varchar(7) | YES  |     | NULL    |       |
| playtype   | varchar(7) | YES  |     | NULL    |       |
| directorid | varchar(4) | YES  |     | NULL    |       |
+-----+
5 rows in set (0.00 sec)

mysql> desc performer;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| performerid | varchar(4) | NO   | PRI | NULL    |       |
| performerfn | varchar(7) | YES  |     | NULL    |       |
| performerln | varchar(10)| YES  |     | NULL    |       |
| performerphone | varchar(12)| YES  |     | NULL    |       |
| performeremail | varchar(20)| YES  |     | NULL    |       |
+-----+
5 rows in set (0.00 sec)
```

MYSQL table - 2

```
MySQL 5.7 Command Line Client
mysql> desc sponsor;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| sponsorid  | smallint(4) unsigned | NO   | PRI | NULL    |       |
| companyname | varchar(15) | YES  |     | NULL    |       |
| sponsorfn  | varchar(5) | YES  |     | NULL    |       |
| sponsorln  | varchar(6) | YES  |     | NULL    |       |
| sponsorphone | varchar(12)| YES  |     | NULL    |       |
| typeofbusiness | varchar(15) | YES  |     | NULL    |       |
+-----+
6 rows in set (0.00 sec)

mysql> desc playperformer;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| playid     | varchar(4) | NO   |     | NULL    |       |
| performerid | varchar(4) | NO   |     | NULL    |       |
+-----+
2 rows in set (0.00 sec)

mysql> desc playsponsor;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| playid     | varchar(4) | NO   |     | NULL    |       |
| sponsorid  | smallint(4) unsigned | NO   |     | NULL    |       |
+-----+
2 rows in set (0.00 sec)

mysql>
```

MYSQL table - 3

```
MySQL 5.7 Command Line Client - Unicode

mysql> insert into play values
-> ("P111", "Hello Dolly", "2 hours", "Musical", "D100"),
-> ("P222", "The King and I", "2 hours", "Musical", "D100"),
-> ("P333", "Serious Skits", "1 hour", "Drama", "D200"),
-> ("P444", "Happy Hour", "1 hour", "Comedy", "D300"),
-> ("P555", "Happy Days", "3 hours", "Drama", "D100"),
-> ("P666", "On a Carousel", "2 hours", "Comedy", "D300"),
-> ("P777", "Rent", "2 hours", "Musical", "D400"),
-> ("P888", "West Side Story", "2 hours", "Musical", "D500");
Query OK, 8 rows affected (0.13 sec)
Records: 8 Duplicates: 0 Warnings: 0

mysql> insert into director values
-> ("D100", "William", "Shakespear", "800-555-1678", "shakes@directs.com"),
-> ("D200", "Theodore", "Limited", "800-555-0000", "theo@directs.com"),
-> ("D300", "Sheila", "Patterson", "800-555-1414", "sheila@directs.com"),
-> ("D400", "Julie", "Wonderful", "800-555-8888", "julie@directs.com"),
-> ("D500", "Benjamin", "Pretend", "800-555-7890", "pretend@directs.com");
Query OK, 5 rows affected (0.05 sec)
```

MYSQL table - 4

```
MySQL 5.7 Command Line Client - Unicode

mysql> insert into performer values
-> ("A101", "Beth", "Activision", "703-555-1888", "beth@beth.com"),
-> ("A102", "Mark", "Activision", "703-555-1888", "mark@mark.com"),
-> ("A103", "Seth", "Adams", "703-555-1288", "seth@seth.com"),
-> ("A104", "Peter", "Zimmers", "703-555-3434", "peter@peter.com"),
-> ("A105", "Susan", "Smith", "703-555-4343", "sue@sue.com"),
-> ("A106", "Susan", "Peters", "703-555-5454", "susan@susan.com"),
-> ("A107", "William", "Henry", "703-555-5555", "william@william.com"),
-> ("A108", "Lou", "Smith", "703-555-0001", "lou@lou.com"),
-> ("A109", "Pat", "Bender", "703-555-9000", "pat@pat.com"),
-> ("A110", "Sally", "Fence", "703-555-9030", "sally@sally.com"),
-> ("A111", "John", "Jacobs", "703-555-9031", "john@john.com"),
-> ("A112", "Adam", "Quinn", "703-555-8991", "adam@adam.com");
Query OK, 12 rows affected (0.06 sec)
Records: 12 Duplicates: 0 Warnings: 0

mysql> insert into sponsor values
-> (1020, "Best Eats Here", "Sean", "Bud", "703-555-2222", "Fast Food"),
-> (1040, "Burgers R us", "Bill", "Rogers", "703-555-1212", "Fast Food"),
-> (1060, "Business Buy", "Joe", "Dream", "703-555-3456", "Electronics"),
-> (1070, "Coasters Haven", "Mary", "Clark", "703-555-3456", "Amusement Park"),
-> (1010, "Gadgets Inc", "Joe", "Smith", "703-555-1234", "Electronics"),
-> (1050, "The Tax Store", "Kim", "Lee", "703-555-8888", "Tax Services"),
-> (1030, "Water Fun", "Helen", "Smith", "703-555-3333", "Amusement Park");
Query OK, 7 rows affected (0.05 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

MYSQL table - 5

```
MySQL 5.7 Command Line Client - Unicode

mysql> insert into playperformer values
-> ("P555", "A101"),
-> ("P555", "A102"),
-> ("P555", "A103"),
-> ("P555", "A104"),
-> ("P555", "A105"),
-> ("P555", "A106"),
-> ("P555", "A107"),
-> ("P555", "A108"),
-> ("P555", "A109"),
-> ("P444", "A103"),
-> ("P444", "A104"),
-> ("P444", "A105"),
-> ("P111", "A101"),
-> ("P111", "A102"),
-> ("P111", "A106"),
-> ("P111", "A107"),
-> ("P111", "A105"),
-> ("P111", "A111"),
-> ("P111", "A112"),
-> ("P999", "A110"),
-> ("P999", "A111"),
-> ("P999", "A112"),
-> ("P666", "A103"),
-> ("P666", "A104"),
-> ("P666", "A107"),
-> ("P666", "A110"),
-> ("P666", "A111"),
-> ("P666", "A112"),
-> ("P666", "A101"),
-> ("P666", "A102"),
-> ("P666", "A104"),
-> ("P666", "A107"),
-> ("P666", "A112"),
-> ("P333", "A110"),
-> ("P333", "A111"),
-> ("P333", "A112"),
-> ("P222", "A103"),
-> ("P222", "A104"),
-> ("P222", "A105"),
-> ("P222", "A106"),
-> ("P222", "A107"),
-> ("P222", "A109"),
-> ("P888", "A107"),
-> ("P888", "A105"),
-> ("P888", "A111"),
-> ("P888", "A112");
Query OK, 46 rows affected (0.24 sec)
Records: 46 Duplicates: 0 Warnings: 0
```

MYSQL table - 6

```
MySQL 5.7 Command Line Client - Unicode

mysql> insert into playsponsor values
-> ("P555", 1040),
-> ("P555", 1060),
-> ("P444", 1050),
-> ("P444", 1070),
-> ("P444", 1010),
-> ("P111", 1050),
-> ("P111", 1030),
-> ("P111", 1010),
-> ("P999", 1070),
-> ("P999", 1010),
-> ("P999", 1030),
-> ("P999", 1050),
-> ("P999", 1020),
-> ("P666", 1040),
-> ("P666", 1050),
-> ("P666", 1040),
-> ("P333", 1040),
-> ("P333", 1070),
-> ("P333", 1060),
-> ("P333", 1030),
-> ("P222", 1060),
-> ("P222", 1020),
-> ("P222", 1070),
-> ("P888", 1010),
-> ("P888", 1070);

Query OK, 25 rows affected (0.03 sec)
```

MYSQL table - 7

```
MySQL 5.7 Command Line Client

mysql> select * from director;
+-----+-----+-----+-----+-----+
| directorid | directorfn | directorln | directorphone | directoremail |
+-----+-----+-----+-----+-----+
| D100      | William   | Shakespear | 800-555-1678  | shakes@directs.com |
| D200      | Theodore | Limited    | 800-555-0000  | theo@directs.com  |
| D300      | Sheila   | Patterson  | 800-555-1414  | sheila@directs.com |
| D400      | Julie    | Wonderful  | 800-555-8888  | julie@directs.com  |
| D500      | Benjamin | Pretend    | 800-555-7890  | pretend@directs.com |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from play;
+-----+-----+-----+-----+-----+
| playid | playname      | playlength | playtype | directorid |
+-----+-----+-----+-----+-----+
| P111   | Hello Dolly   | 2 hours    | Musical  | D100      |
| P222   | The King and I | 2 hours    | Musical  | D100      |
| P333   | Serious Skits | 1 hour     | Drama    | D200      |
| P444   | Happy Hour    | 1 hour     | Comedy   | D300      |
| P555   | Happy Days    | 3 hours    | Drama    | D100      |
| P666   | On a Carousel | 2 hours    | Comedy   | D300      |
| P777   | Rent          | 2 hours    | Musical  | D400      |
| P888   | West Side Story | 2 hours    | Musical  | D500      |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select * from performer;
+-----+-----+-----+-----+-----+
| performerid | performerfn | performerln | performerphone | performeremail |
+-----+-----+-----+-----+-----+
| A101        | Beth       | Activision | 703-555-1888  | beth@beth.com  |
+-----+-----+-----+-----+-----+
```

MYSQL table - 8

```
MySQL 5.7 Command Line Client

mysql> select * from performer;
+-----+-----+-----+-----+-----+
| performerid | performerfn | performerln | performerphone | performeremail |
+-----+-----+-----+-----+-----+
| A101        | Beth       | Activision  | 703-555-1888   | beth@beth.com  |
| A102        | Mark      | Activision  | 703-555-1888   | mark@mark.com  |
| A103        | Seth      | Adams       | 703-555-1288   | seth@seth.com  |
| A104        | Peter     | Zimmers     | 703-555-3434   | peter@peter.com|
| A105        | Susan     | Smith       | 703-555-4343   | sue@sue.com    |
| A106        | Susan     | Peters      | 703-555-5454   | susan@susan.com|
| A107        | William   | Henry       | 703-555-5555   | william@william.com|
| A108        | Lou       | Smith       | 703-555-0001   | lou@lou.com    |
| A109        | Pat       | Bender      | 703-555-9000   | pat@pat.com    |
| A110        | Sally     | Fence       | 703-555-9030   | sally@sally.com|
| A111        | John      | Jacobs      | 703-555-9031   | john@john.com  |
| A112        | Adam      | Quinn       | 703-555-8991   | adam@adam.com  |
+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)

mysql> select * from sponsor;
+-----+-----+-----+-----+-----+-----+
| sponsorid | companyname | sponsorfn | sponsorln | sponsorphone | typeofbusiness |
+-----+-----+-----+-----+-----+-----+
| 1010      | Gadgets Inc. | Joe       | Smith     | 703-555-1234 | Electronics     |
| 1020      | Best Eats Here | Sean     | Bud       | 703-555-2222 | Fast Food       |
| 1030      | Water Fun     | Helen    | Smith     | 703-555-3333 | Amusement Park |
| 1040      | Burgers R us  | Bill     | Rogers    | 703-555-1212 | Fast Food       |
| 1050      | The Tax Store | Kim      | Lee       | 703-555-8888 | Tax Services    |
| 1060      | Business Buy  | Joe      | Dream     | 703-555-3456 | Electronics     |
| 1070      | Coasters Haven | Mary    | Clark     | 703-555-3456 | Amusement Park |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

MYSQL table - 9

```
MySQL 5.7 Command Line Client

mysql> select * from playperformer;
+-----+-----+
| playid | performerid |
+-----+-----+
| P555   | A101        |
| P555   | A102        |
| P555   | A103        |
| P555   | A104        |
| P555   | A105        |
| P555   | A106        |
| P555   | A107        |
| P555   | A108        |
| P555   | A109        |
| P444   | A103        |
| P444   | A104        |
| P444   | A105        |
| P111   | A101        |
| P111   | A102        |
| P111   | A106        |
| P111   | A107        |
| P111   | A105        |
| P111   | A111        |
| P111   | A112        |
| P999   | A110        |
| P999   | A111        |
| P999   | A112        |
| P666   | A103        |
| P666   | A104        |
| P666   | A107        |
| P666   | A110        |
| P666   | A111        |
| P666   | A112        |
+-----+-----+
```

MYSQL table - 10

```
MySQL 5.7 Command Line Client

P666 | A101 |
P666 | A102 |
P666 | A104 |
P666 | A107 |
P666 | A112 |
P333 | A110 |
P333 | A111 |
P333 | A112 |
P222 | A103 |
P222 | A104 |
P222 | A105 |
P222 | A106 |
P222 | A107 |
P222 | A109 |
P888 | A107 |
P888 | A105 |
P888 | A111 |
P888 | A112 |
+-----+-----+
46 rows in set (0.00 sec)

mysql> select * from playsponsor;
+-----+-----+
| playid | sponsorid |
+-----+-----+
| P555 | 1040 |
| P555 | 1060 |
| P444 | 1050 |
| P444 | 1070 |
| P444 | 1010 |
| P111 | 1050 |
| P111 | 1030 |
| P111 | 1010 |
```

MYSQL table - 11

```
MySQL 5.7 Command Line Client

mysql> select * from playsponsor;
+-----+-----+
| playid | sponsorid |
+-----+-----+
| P555 | 1040 |
| P555 | 1060 |
| P444 | 1050 |
| P444 | 1070 |
| P444 | 1010 |
| P111 | 1050 |
| P111 | 1030 |
| P111 | 1010 |
| P999 | 1070 |
| P999 | 1010 |
| P999 | 1030 |
| P999 | 1050 |
| P999 | 1020 |
| P666 | 1040 |
| P666 | 1050 |
| P666 | 1040 |
| P333 | 1040 |
| P333 | 1070 |
| P333 | 1060 |
| P333 | 1030 |
| P222 | 1060 |
| P222 | 1020 |
| P222 | 1070 |
| P888 | 1010 |
| P888 | 1070 |
+-----+-----+
25 rows in set (0.00 sec)

mysql> _
```

MYSQL table - 12

```
mysql> select performerfn, performerln, performerphone
-> from performer
-> order by performerln;
+-----+-----+-----+
| performerfn | performerln | performerphone |
+-----+-----+-----+
| Beth        | Activision  | 703-555-1888   |
| Mark        | Activision  | 703-555-1888   |
| Seth        | Adams       | 703-555-1288   |
| Pat         | Bender      | 703-555-9000   |
| Sally       | Fence       | 703-555-9030   |
| William     | Henry       | 703-555-5555   |
| John        | Jacobs      | 703-555-9031   |
| Susan       | Peters      | 703-555-5454   |
| Adam        | Quinn       | 703-555-8991   |
| Susan       | Smith       | 703-555-4343   |
| Lou         | Smith       | 703-555-0001   |
| Peter       | Zimmers     | 703-555-3434   |
+-----+-----+-----+
12 rows in set (0.00 sec)

mysql>
```

MYSQL table - 13

```
mysql> select companyname, sponsorfn, sponsorln, sponsorphone
-> from sponsor
-> order by companyname;
+-----+-----+-----+-----+
| companyname | sponsorfn | sponsorln | sponsorphone |
+-----+-----+-----+-----+
| Best Eats Here | Sean      | Bud       | 703-555-2222 |
| Burgers R us   | Bill      | Rogers    | 703-555-1212 |
| Business Buy   | Joe       | Dream     | 703-555-3456 |
| Coasters Haven | Mary      | Clark     | 703-555-3456 |
| Gadgets Inc    | Joe       | Smith     | 703-555-1234 |
| The Tax Store  | Kim       | Lee       | 703-555-8888 |
| Water Fun      | Helen     | Smith     | 703-555-3333 |
+-----+-----+-----+-----+
```

MYSQL table - 14

```
mysql> select d.directorln, d.directorfn, p.playname, p.playtype
-> from director d, play p
-> where d.directorid = p.directorid
-> order by directorln;
+-----+-----+-----+-----+
| directorln | directorfn | playname   | playtype |
+-----+-----+-----+-----+
| Limited    | Theodore   | Serious Skits | Drama    |
| Patterson  | Sheila     | Happy Hour   | Comedy   |
| Patterson  | Sheila     | On a Carousel | Comedy   |
| Pretend    | Benjamin   | West Side Story | Musical  |
| Shakespear | William    | Hello Dolly  | Musical  |
| Shakespear | William    | Happy Days    | Drama    |
| Shakespear | William    | The King and I | Musical  |
| Wonderful  | Julie      | Rent         | Musical  |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```

MYSQL table - 15

```
MySQL 5.7 Command Line Client - Unicode
mysql> select p.playname, p.playtype, s.companyname, s.typeofbusiness
-> from play p, sponsor s, playsponsor ps
-> where p.playid = ps.playid and s.sponsorid = ps.sponsorid
-> order by playname;
+-----+-----+-----+-----+
| playname | playtype | companyname | typeofbusiness |
+-----+-----+-----+-----+
| Happy Days | Drama | Burgers R us | Fast Food |
| Happy Days | Drama | Business Buy | Electronics |
| Happy Hour | Comedy | Coasters Haven | Amusement Park |
| Happy Hour | Comedy | The Tax Store | Tax Services |
| Happy Hour | Comedy | Gadgets Inc | Electronics |
| Hello Dolly | Musical | Water Fun | Amusement Park |
| Hello Dolly | Musical | The Tax Store | Tax Services |
| Hello Dolly | Musical | Gadgets Inc | Electronics |
| Home Run! | Drama | Best Eats Here | Fast Food |
| Home Run! | Drama | Gadgets Inc | Electronics |
| Home Run! | Drama | The Tax Store | Tax Services |
| Home Run! | Drama | Coasters Haven | Amusement Park |
| Home Run! | Drama | Water Fun | Amusement Park |
| On a Carousel | Comedy | Burgers R us | Fast Food |
| On a Carousel | Comedy | The Tax Store | Tax Services |
| On a Carousel | Comedy | Burgers R us | Fast Food |
| Serious Skits | Drama | Business Buy | Electronics |
| Serious Skits | Drama | Coasters Haven | Amusement Park |
| Serious Skits | Drama | Water Fun | Amusement Park |
| Serious Skits | Drama | Burgers R us | Fast Food |
| The King and I | Musical | Best Eats Here | Fast Food |
| The King and I | Musical | Business Buy | Electronics |
| The King and I | Musical | Coasters Haven | Amusement Park |
| West Side Story | Musical | Coasters Haven | Amusement Park |
| West Side Story | Musical | Gadgets Inc | Electronics |
+-----+-----+-----+-----+
25 rows in set (0.00 sec)
```

MYSQL table - 16