

Jesse Russell  
IA 385  
Dr. Jie Cao  
Lab 4

**Q1.** Switch back to Workbench and refresh the SCHEMAS on the left and see what changed, try to explain what did command “create database ia385;” do, then switch back to the command line client.

**Screenshots:**

The screenshot displays two windows. The top window is MySQL Workbench, showing the 'SCHEMAS' navigator on the left with a tree view containing 'ia385' and 'sys'. The 'ia385' database is selected, and its 'Tables' folder is expanded, showing 'new\_table'. The 'Query 1' editor shows the SQL command 'SELECT \* FROM sys.new\_table;'. The 'Result Grid' shows a table with two columns, 'idnew\_table' and 'new\_tablecol', and one row with 'NULL' values. The bottom window is the 'MySQL 8.0 Command Line Client', showing the following commands and output:

```
mysql> show databases;
+-----+
| Database |
+-----+
| ia385    |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
5 rows in set (0.00 sec)
```

The output shows that the 'ia385' database has been successfully created and is now listed among the other databases.

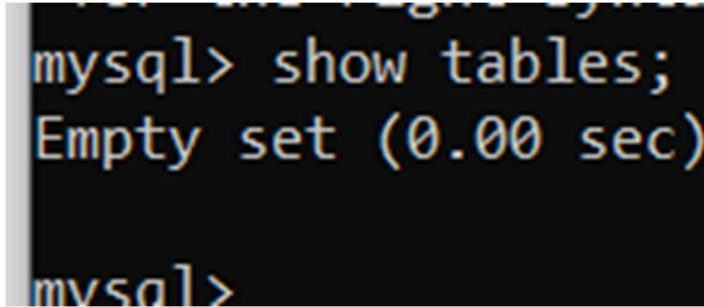
**Explanation:**

The “create database ia385;” command added the ia385 database to the list of schemas.

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**Q2.** What is the result of the “Show tables” command?

**Screenshots:**



```
mysql> show tables;  
Empty set (0.00 sec)  
  
mysql>
```

A screenshot of a terminal window with a black background and yellow text. It shows a MySQL command prompt where the user has entered 'show tables;'. The output is 'Empty set (0.00 sec)'. The prompt 'mysql>' is visible at the bottom.

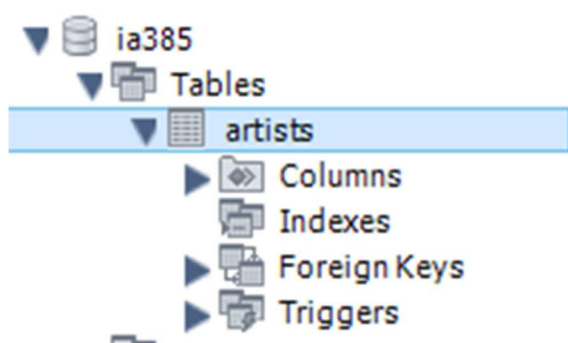
**Explanation:**

The “show tables;” command displayed no tables because I haven’t created any for the ia385 database yet.

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**Q3.** What did the “create table artist (id int null);” command do?

**Screenshots:**



**Explanation:**

The “create table artist (id int null);” command created a new table in the database called artist.

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**Q4.** What is the result of the “describe songs;” command?

**Screenshots:**

```
mysql> describe songs;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID    | int           | NO   | PRI | NULL    |       |
| Title | varchar(45)   | YES  |     | NULL    |       |
| Artist | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> _
```

**Explanation:**

The “describe songs;” command shows the song table’s columns, as well as information about those columns.

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**Q5.** What is the result of the “Select \* from artists;” command?

**Screenshots:**

```
mysql> select * from artists;
+----+-----+
| ID | Name          |
+----+-----+
| 1  | Michael Jackson |
| 2  | Madonna        |
| 3  | Billy Joel     |
| 4  | Phil Collins   |
| 5  | Fleetwood Mac  |
+----+-----+
5 rows in set (0.00 sec)

mysql>
```

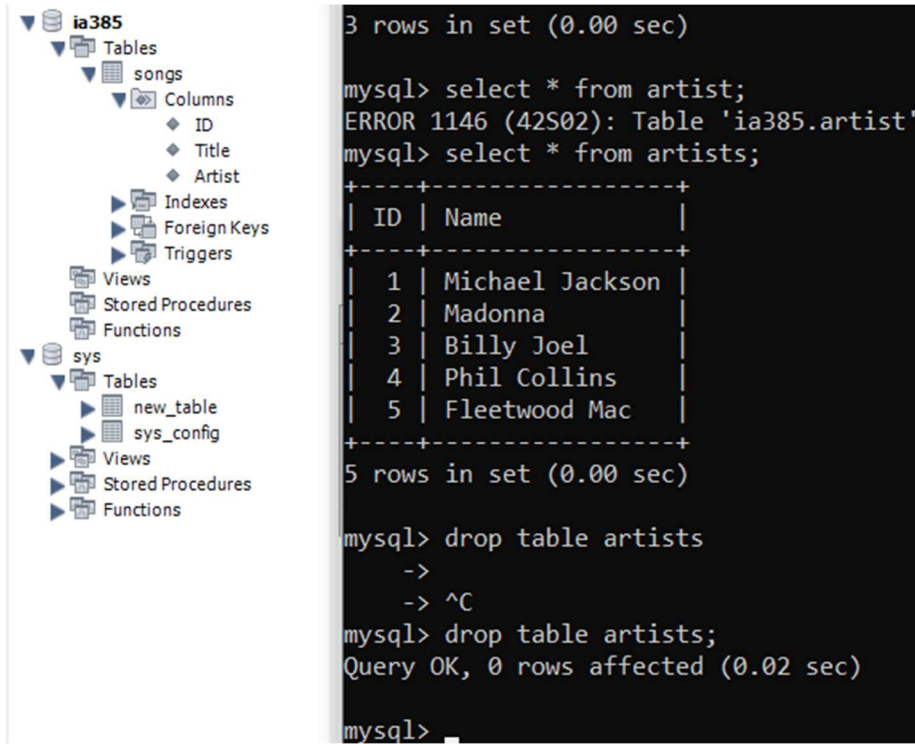
**Explanation:**

The “select \* from artists;” command shows the artists table’s contents.

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**Q6.** What is the result of the “drop table artists;” command?

**Screenshots:**



The screenshot displays the MySQL Workbench interface. On the left, the 'Database Structure' pane shows the 'ia385' database with tables 'songs' and 'artists'. The 'songs' table has columns 'ID', 'Title', and 'Artist'. The 'artists' table has columns 'ID' and 'Name'. The 'sys' database is also visible with tables 'new\_table' and 'sys\_config'. On the right, the 'SQL Editor' pane shows the following commands and output:

```
mysql> select * from artist;
ERROR 1146 (42S02): Table 'ia385.artist'
mysql> select * from artists;
+----+-----+
| ID | Name          |
+----+-----+
| 1  | Michael Jackson |
| 2  | Madonna        |
| 3  | Billy Joel     |
| 4  | Phil Collins   |
| 5  | Fleetwood Mac  |
+----+-----+
5 rows in set (0.00 sec)

mysql> drop table artists
->
-> ^C
mysql> drop table artists;
Query OK, 0 rows affected (0.02 sec)

mysql>
```

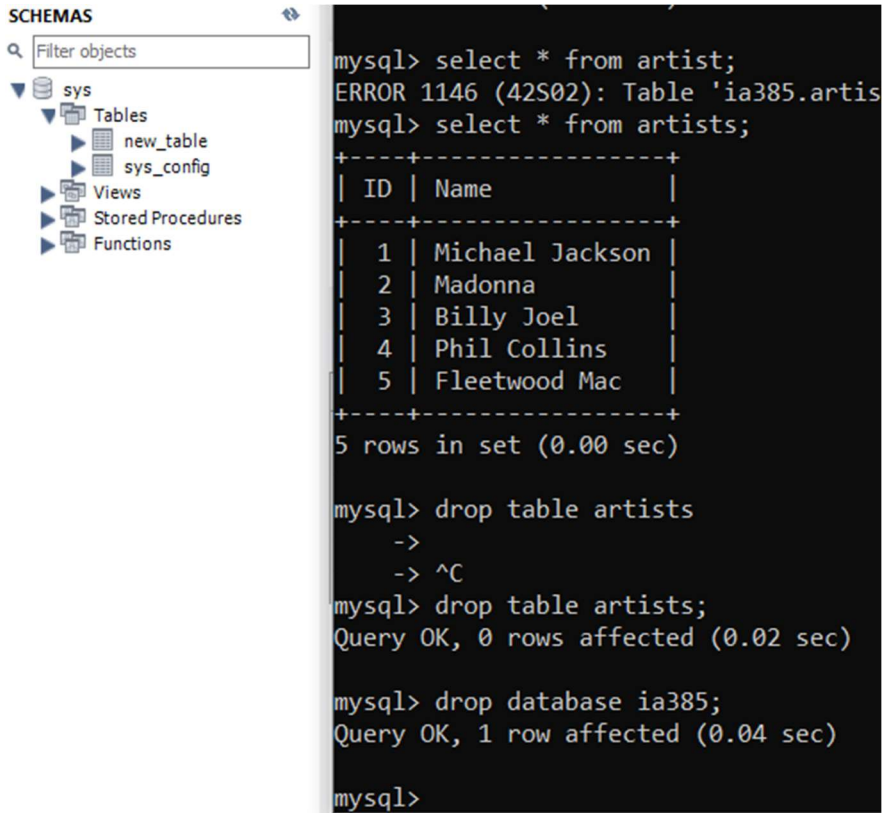
**Explanation:**

The “drop table artists;” command deletes the artists table.

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**Q7.** What is the result of the “drop database ia385;” command?

**Screenshots:**



The screenshot shows a MySQL command-line interface on the right and a 'SCHEMAS' view on the left. The command-line shows the following sequence of commands and outputs:

```
mysql> select * from artist;
ERROR 1146 (42S02): Table 'ia385.artis
mysql> select * from artists;
+----+-----+
| ID | Name          |
+----+-----+
| 1  | Michael Jackson |
| 2  | Madonna        |
| 3  | Billy Joel     |
| 4  | Phil Collins   |
| 5  | Fleetwood Mac  |
+----+-----+
5 rows in set (0.00 sec)

mysql> drop table artists
->
-> ^C
mysql> drop table artists;
Query OK, 0 rows affected (0.02 sec)

mysql> drop database ia385;
Query OK, 1 row affected (0.04 sec)

mysql>
```

The 'SCHEMAS' view on the left shows a tree structure with 'sys' expanded, containing 'Tables' (new\_table, sys\_config), 'Views', 'Stored Procedures', and 'Functions'.

**Explanation:**

The “drop database ia385;” command deletes the ia385 database.

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Q8. Submit the screenshots of the result for the following SQL.

Screenshots:

```
SQL> select * from system.artists;
```

ID	ARTIST
1	Michael Jackson
2	Madonna
3	Billy Joel
4	Phil Collins
5	Fleetwood Mac

```
SQL>
```

```
SQL> select * from system.songs;
```

ID	TITLE	ARTIST
1	"Thriller"	1
2	"True Blue"	2
3	"Landslide"	5
4	"Beat It"	1
5	"Sussudio"	4
6	"Uptown Girl"	3

6 rows selected.

```
SQL>
```

```
SQL> describe system.songs;
```

Name	Null?	Type
ID		NUMBER(38)
TITLE		VARCHAR2(20)
ARTIST		NUMBER(38)

```
SQL> _
```

```
SQL> describe system.artists;
```

Name	Null?	Type
ID		NUMBER(38)
ARTIST		VARCHAR2(20)

```
SQL> _
```



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**Explanation:**

The “Select \* from system.artists;” command shows the data from the artists table.

The “Select \* from system.songs;” command shows the data from the songs table.

The “describe system.songs;” command shows information about the songs tables.

The “describe system.artists;” command shows information about the songs tables.

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