

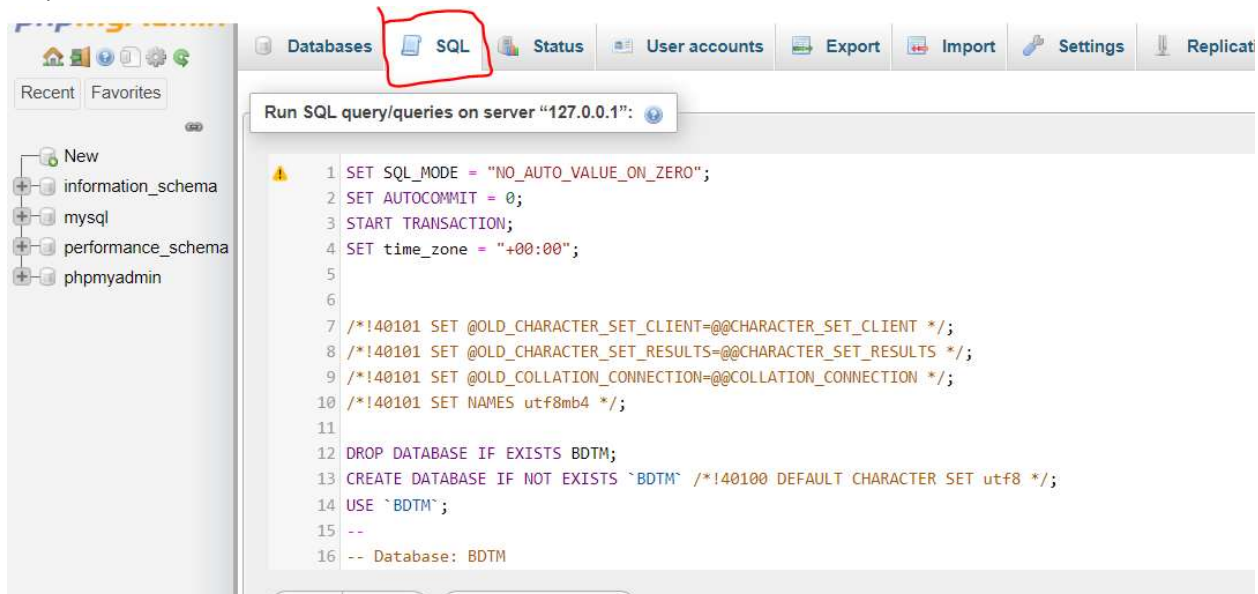
MySQL – DML Command demonstrate

Download dataset for executing the SQL commands for the exercises.

<https://raw.githubusercontent.com/sitmbadept/sitmbadept.github.io/main/BDTM/SQL/bdtm.sql>

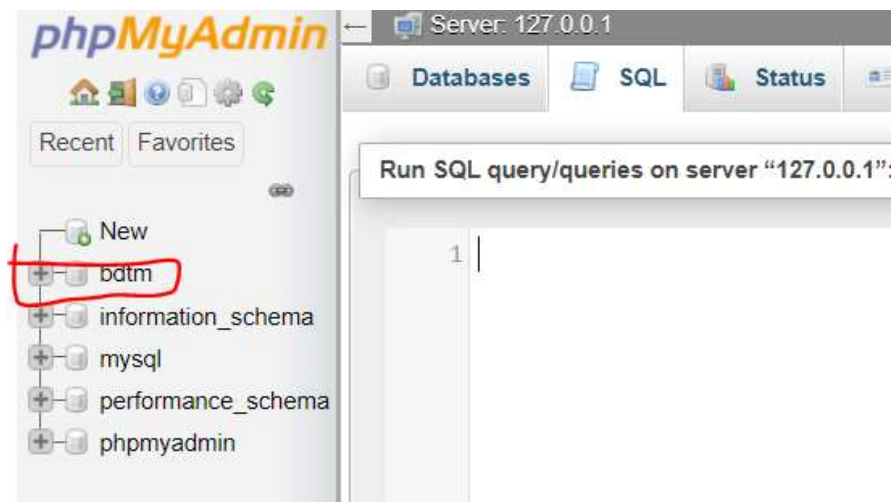
Step - 1 : Copy entire codes from bdtm.sql file/above link and paste in SQL command windows.

Step - 2: Click on Go button

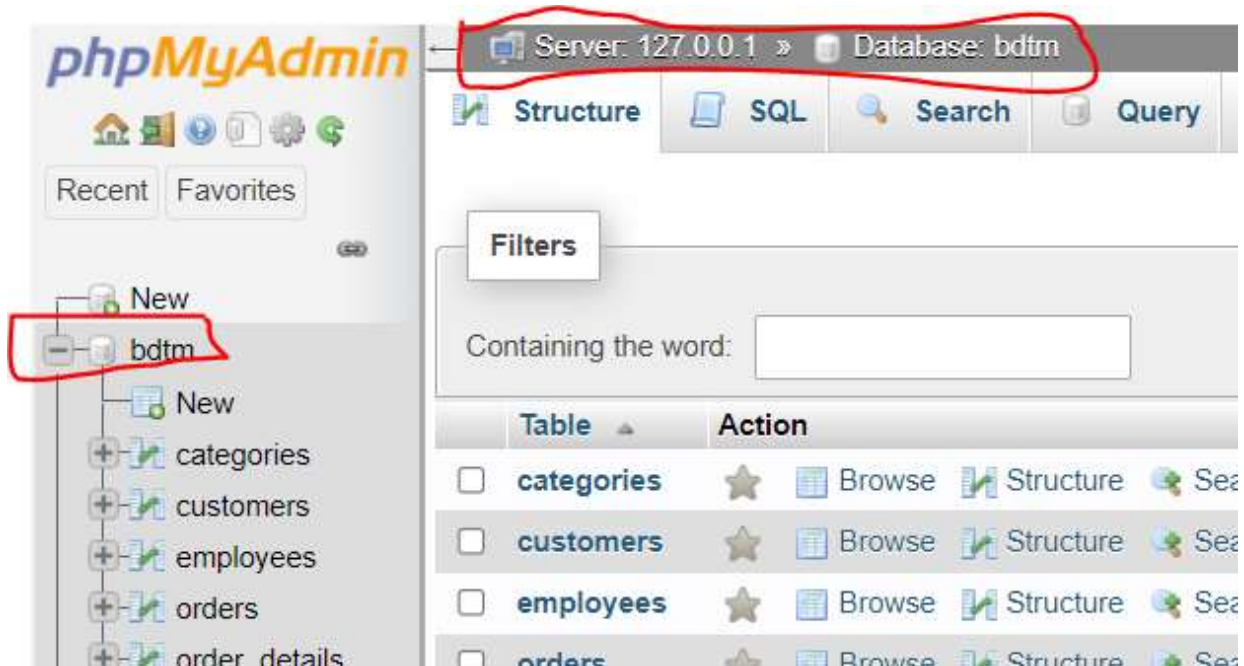


Step -3 : After execution, refresh the web page(phpmyadmin)

Step -4 : new bdtm database will appear in left panel window.



Before executing any SQL commands first step is to select **bdtm** database for following questions. Click on bdtm database on left panel to select it.



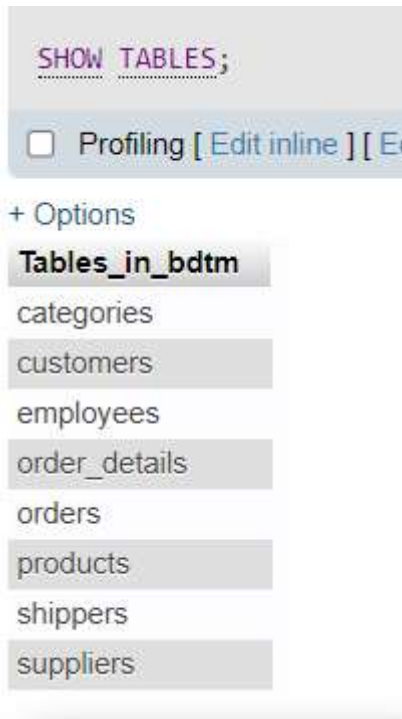
Write SQL statements for following questions:

1. List all the tables available in bdtm database.
2. Display all the records available in customers table.
3. Display CustomerName and Country from customers table
4. Display CustomerID, CotactName, City, County from customers table
5. Sort Customer data in ascending order based on Country name(A-Z)
6. Sort Customer data based in descending order based on ContactName (Z-A)
7. Filter out USA customers with all the columns from customers table
8. Display all the columns from order_details table
9. Get the total order Quantity in order_details table
10. Summaries total Quantity per OrderID in order_details table
11. Display OrderID which has Quantity greater than 180
12. Display OrderID which has Quantity less than 5
13. Display all the categories details available in Categories table
14. Check total number of records present in suppliers
15. Display minimum product price from products table.
16. Display maximum product price from products table.
17. Filter out the products where price between 80 to 300
18. Filter out the customers from USA, Brazil and Canada

SQL Codes

1. List all the tables available in bdtm database.

SHOW TABLES;



2. Display all the records available in customers table.

SELECT * FROM customers;

The screenshot shows the results of the query `SELECT * FROM customers;`. A status bar at the top indicates 'Showing rows 0 - 24 (91 total, Query took 0.0006 seconds.)'. Below the query, there are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A toolbar shows '1' selected, 'Show all', 'Number of rows: 25', 'Filter rows: Search this table', and 'Sort by key: None'. The results are displayed in a table with 8 columns: CustomerID, CustomerName, ContactName, Address, City, PostalCode, and Country. The first 7 rows are visible, showing customer information from Germany, Mexico, and Sweden.

	CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
<input type="checkbox"/> Edit Copy Delete	1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
<input type="checkbox"/> Edit Copy Delete	2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
<input type="checkbox"/> Edit Copy Delete	3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
<input type="checkbox"/> Edit Copy Delete	4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
<input type="checkbox"/> Edit Copy Delete	5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
<input type="checkbox"/> Edit Copy Delete	6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
<input type="checkbox"/> Edit Copy Delete	7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France

3. Display CustomerName and Country from customers table

SELECT CustomerName, Country FROM customers;

```
SELECT CustomerName, Country FROM customers;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

1 > >> | ☐ Show all | Number of rows: 25 Filter rows: Sea

+ Options

				CustomerName	Country
<input type="checkbox"/>				Alfreds Futterkiste	Germany
<input type="checkbox"/>				Ana Trujillo Emparedados y helados	Mexico
<input type="checkbox"/>				Antonio Moreno Taquería	Mexico
<input type="checkbox"/>				Around the Horn	UK
<input type="checkbox"/>				Berglunds snabbköp	Sweden
<input type="checkbox"/>				Blauer See Delikatessen	Germany
<input type="checkbox"/>				Blondel père et fils	France

4. Display CustomerID, CotactName, City, County from customers table

SELECT CustomerID, ContactName, City, Country FROM customers;

✓ Showing rows 0 - 24 (91 total, Query took 0.0007 seconds.)

```
SELECT CustomerID, ContactName, City, Country FROM customers;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

1 > >> | ☐ Show all | Number of rows: 25 Filter rows: Search this tabl

+ Options

				CustomerID	ContactName	City	Country
<input type="checkbox"/>				1	Maria Anders	Berlin	Germany
<input type="checkbox"/>				2	Ana Trujillo	México D.F.	Mexico
<input type="checkbox"/>				3	Antonio Moreno	México D.F.	Mexico
<input type="checkbox"/>				4	Thomas Hardy	London	UK
<input type="checkbox"/>				5	Christina Berglund	Luleå	Sweden
<input type="checkbox"/>				6	Hanna Moos	Mannheim	Germany
<input type="checkbox"/>				7	Frédérique Citeaux	Strasbourg	France
<input type="checkbox"/>				8	Martín Sommer	Madrid	Spain

5. Sort Customers data in ascending order based on Country name(A-Z)

SELECT * FROM customers ORDER BY Country ASC;

Showing rows 0 - 24 (91 total, Query took 0.0009 seconds.) [Country: ARGENTINA... - FRANCE...]

SELECT * FROM customers ORDER BY Country ASC;

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
<input type="checkbox"/> Edit Copy Delete	12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
<input type="checkbox"/> Edit Copy Delete	54	Océano Atlántico Ltda.	Yvonne Moncada	Ing. Gustavo Moncada 8585 Piso 20-A	Buenos Aires	1010	Argentina
<input type="checkbox"/> Edit Copy Delete	64	Rancho grande	Sergio Gutiérrez	Av. del Libertador 900	Buenos Aires	1010	Argentina
<input type="checkbox"/> Edit Copy Delete	20	Ernst Handel	Roland Mendel	Kirchgasse 6	Graz	8010	Austria
<input type="checkbox"/> Edit Copy Delete	59	Piccolo und mehr	Georg Pipps	Geislweg 14	Salzburg	5020	Austria
<input type="checkbox"/> Edit Copy Delete	50	Maison Dewey	Catherine Dewey	Rue Joseph-Bens 532	Bruxelles	B-1180	Belgium
<input type="checkbox"/> Edit Copy Delete	76	Suprêmes délices	Pascale Cartrain	Boulevard Tirou, 255	Charleroi	B-6000	Belgium
<input type="checkbox"/> Edit Copy Delete	15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil

6. Sort Customers data in descending order based on ContactName (Z-A)

SELECT * FROM `customers` ORDER BY ContactName DESC;

Showing rows 0 - 24 (91 total, Query took 0.0008 seconds.) [ContactName: ZBYSZEK... - PAOLO ACCORTI...]

SELECT * FROM `customers` ORDER BY ContactName DESC;

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
<input type="checkbox"/> Edit Copy Delete	91	Wolski	Zbyszek	ul. Filtrowa 68	Walla	01-012	Poland
<input type="checkbox"/> Edit Copy Delete	54	Océano Atlántico Ltda.	Yvonne Moncada	Ing. Gustavo Moncada 8585 Piso 20-A	Buenos Aires	1010	Argentina
<input type="checkbox"/> Edit Copy Delete	42	Laughing Bacchus Wine Cellars	Yoshi Tannamuri	1900 Oak St.	Vancouver	V3F 2K1	Canada
<input type="checkbox"/> Edit Copy Delete	36	Hungry Coyote Import Store	Yoshi Latimer	City Center Plaza 516 Main St.	Elgin	97827	USA
<input type="checkbox"/> Edit Copy Delete	14	Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerland
<input type="checkbox"/> Edit Copy Delete	11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
<input type="checkbox"/> Edit Copy Delete	4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
<input type="checkbox"/> Edit Copy Delete	17	Drachenblut Delikatessend	Sven Ottlieb	Walsenweg 21	Aachen	52066	Germany
<input type="checkbox"/> Edit Copy Delete	53	North/South	Simon Crowther	South House 300 Queensbridge	London	SW7 1RZ	UK
<input type="checkbox"/> Edit Copy Delete	64	Rancho grande	Sergio Gutiérrez	Av. del Libertador 900	Buenos Aires	1010	Argentina

7. Filter out USA customers with all the columns from customers table

SELECT * FROM customers WHERE Country = 'USA';

SELECT * FROM customers WHERE Country = "USA";

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

	CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
<input type="checkbox"/> Edit Copy Delete	32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA
<input type="checkbox"/> Edit Copy Delete	36	Hungry Coyote Import Store	Yoshi Latimer	City Center Plaza 516 Main St.	Elgin	97827	USA
<input type="checkbox"/> Edit Copy Delete	43	Lazy K Kountry Store	John Steel	12 Orchestra Terrace	Walla Walla	99362	USA
<input type="checkbox"/> Edit Copy Delete	45	Let's Stop N Shop	Jaime Yorres	87 Polk St. Suite 5	San Francisco	94117	USA
<input type="checkbox"/> Edit Copy Delete	48	Lonesome Pine Restaurant	Fran Wilson	89 Chiaroscuro Rd.	Portland	97219	USA
<input type="checkbox"/> Edit Copy Delete	55	Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage	99508	USA
<input type="checkbox"/> Edit Copy Delete	65	Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque	87110	USA
<input type="checkbox"/> Edit Copy Delete	71	Save-a-lot Markets	Jose Pavarotti	187 Suffolk Ln.	Boise	83720	USA
<input type="checkbox"/> Edit Copy Delete	75	Split Rail Beer & Ale	Art Braunschweiger	P.O. Box 555	Lander	82520	USA
<input type="checkbox"/> Edit Copy Delete	77	The Big Cheese	Liz Nixon	89 Jefferson Way Suite 2	Portland	97201	USA
<input type="checkbox"/> Edit Copy Delete	78	The Cracker Box	Liu Wong	55 Grizzly Peak Rd.	Butte	59801	USA

8. Display all the columns from order_details table

SELECT * FROM order_details;

Showing rows 0 - 24 (518 total, Query took 0.0005 seconds.)

SELECT * FROM order_details;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 | > >> | Number of rows: 25 | Filter rows: Search this table

Options

	OrderDetailID	OrderID	ProductID	Quantity
<input type="checkbox"/> Edit Copy Delete	1	10248	11	12
<input type="checkbox"/> Edit Copy Delete	2	10248	42	10
<input type="checkbox"/> Edit Copy Delete	3	10248	72	5
<input type="checkbox"/> Edit Copy Delete	4	10249	14	9
<input type="checkbox"/> Edit Copy Delete	5	10249	51	40

9. Get the total order Quantity in order_details table

SELECT SUM(Quantity) FROM order_details;

✓ Showing rows 0 - 0 (1 total, Query took 0.0011 seconds.)

```
SELECT SUM(Quantity) FROM order_details;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ | Filter rows:

+ Options

SUM(Quantity)
12743

10. Summaries total Quantity per OrderID in order_details table

SELECT OrderID, SUM(Quantity) FROM order_details GROUP BY OrderID;

✓ Showing rows 0 - 24 (196 total, Query took 0.0011 seconds.)

```
SELECT OrderID, SUM(Quantity) FROM order_details GROUP BY OrderID;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)]

1 ▼ | > >> | ☐ Show all | Number of rows: 25

+ Options

				OrderID	SUM(Quantity)			
<input type="checkbox"/>		Edit		Copy		Delete	10248	27
<input type="checkbox"/>		Edit		Copy		Delete	10249	49
<input type="checkbox"/>		Edit		Copy		Delete	10250	60
<input type="checkbox"/>		Edit		Copy		Delete	10251	41
<input type="checkbox"/>		Edit		Copy		Delete	10252	105
<input type="checkbox"/>		Edit		Copy		Delete	10253	102
<input type="checkbox"/>		Edit		Copy		Delete	10254	57
<input type="checkbox"/>		Edit		Copy		Delete	10255	110

11. Display OrderID which has Quantity greater than 180

```
SELECT OrderID, SUM(Quantity)  
FROM order_details  
GROUP BY OrderID  
HAVING SUM(Quantity) > 180;
```

✓ Showing rows 0 - 4 (5 total, Query took 0.0015 seconds.)

```
SELECT OrderID, SUM(Quantity) FROM order_details GROUP BY OrderID HAVING SUM(Quantity) > 180;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

				OrderID	SUM(Quantity)
<input type="checkbox"/>	Edit	Copy	Delete	10263	184
<input type="checkbox"/>	Edit	Copy	Delete	10324	241
<input type="checkbox"/>	Edit	Copy	Delete	10359	206
<input type="checkbox"/>	Edit	Copy	Delete	10430	195
<input type="checkbox"/>	Edit	Copy	Delete	10440	208

12. Display OrderID which has Quantity less than 5

```
SELECT OrderID, SUM(Quantity)  
FROM order_details  
GROUP BY OrderID  
HAVING SUM(Quantity) < 5;
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0014 seconds.)

```
SELECT OrderID, SUM(Quantity) FROM order_details GROUP BY OrderID HAVING SUM(Quantity) < 5;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

				OrderID	SUM(Quantity)
<input type="checkbox"/>	Edit	Copy	Delete	10295	4
<input type="checkbox"/>	Edit	Copy	Delete	10422	2

13. Display all the categories details available in Categories table

SELECT * FROM categories;

✓ Showing rows 0 - 7 (8 total, Query took 0.0006 seconds.)

`SELECT * FROM categories;`

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows: | Sort by key:

+ Options

				CategoryID	CategoryName	Description
<input type="checkbox"/>				1	Beverages	Soft drinks, coffees, teas, beers, and ales
<input type="checkbox"/>				2	Condiments	Sweet and savory sauces, relishes, spreads, and se...
<input type="checkbox"/>				3	Confections	Desserts, candies, and sweet breads
<input type="checkbox"/>				4	Dairy Products	Cheeses
<input type="checkbox"/>				5	Grains/Cereals	Breads, crackers, pasta, and cereal
<input type="checkbox"/>				6	Meat/Poultry	Prepared meats
<input type="checkbox"/>				7	Produce	Dried fruit and bean curd
<input type="checkbox"/>				8	Seafood	Seaweed and fish

14. Check total number of records present in suppliers

SELECT COUNT(*) FROM suppliers;

Your SQL query has been executed successfully.

`SELECT COUNT(*) FROM suppliers;`

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

+ Options

COUNT(*)
29

15. Display minimum product price from products table.

SELECT min(Price) FROM products;

✓ Showing rows 0 - 0 (1 total, Query took 0.0008 seconds.)

```
SELECT min(Price) FROM products;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

- Options

min(Price)
2.5

16. Display maximum product price from products table.

SELECT max(Price) FROM products;

✓ Showing rows 0 - 0 (1 total, Query took 0.0008 seconds.)

```
SELECT max(Price) FROM products;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Ref](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows: Search

+ Options

max(Price)
263.5

17. Filter out the products where price between 80 to 300

SELECT * FROM products WHERE Price BETWEEN 80 AND 300;

Showing rows 0 - 3 (4 total, Query took 0.0010 seconds.)

```
SELECT * FROM products WHERE Price BETWEEN 80 AND 300;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		ProductID	ProductName	SupplierID	CategoryID	Unit	Price
<input type="checkbox"/>	Edit Copy Delete	9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97
<input type="checkbox"/>	Edit Copy Delete	20	Sir Rodney's Marmalade	8	3	30 gift boxes	81
<input type="checkbox"/>	Edit Copy Delete	29	Thüringer Rostbratwurst	12	6	50 bags x 30 sausgs.	123.79
<input type="checkbox"/>	Edit Copy Delete	38	Côte de Blaye	18	1	12 - 75 cl bottles	263.5

18. Filter out the customers from USA, Brazil and Canada

SELECT * FROM customers WHERE Country IN ('USA', 'Brazil', 'Canada');

Showing rows 0 - 24 (25 total, Query took 0.0008 seconds.)

```
SELECT * FROM customers WHERE Country IN ('USA', 'Brazil', 'Canada');
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
<input type="checkbox"/>	Edit Copy Delete	10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada
<input type="checkbox"/>	Edit Copy Delete	15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil
<input type="checkbox"/>	Edit Copy Delete	21	Família Arquibaldo	Aria Cruz	Rua Orós, 92	São Paulo	05442-030	Brazil
<input type="checkbox"/>	Edit Copy Delete	31	Gourmet Lanchonetes	André Fonseca	Av. Brasil, 442	Campinas	04876-786	Brazil
<input type="checkbox"/>	Edit Copy Delete	32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA
<input type="checkbox"/>	Edit Copy Delete	34	Hanari Carnes	Mario Pontes	Rua do Paço, 67	Rio de Janeiro	05454-876	Brazil
<input type="checkbox"/>	Edit Copy Delete	36	Hungry Coyote Import Store	Yoshi Latimer	City Center Plaza 516 Main St.	Elgin	97827	USA
<input type="checkbox"/>	Edit Copy Delete	42	Laughing Bacchus Wine Cellars	Yoshi Tannamuri	1900 Oak St.	Vancouver	V3F 2K1	Canada