

Sql practice homework

PART 1:

1.

Display the company name, contact name, and city for all CUSTOMERS.

**SELECT CompanyName, ContactName, City
FROM Customers;**

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** localhost
- Database:** dbswtwobmjb7cp (northwind)
- Table:** customers

The results of the query are displayed in a table:

CompanyName	ContactName	City
Alfreds Futterkiste	Maria Anders	Berlin
Ana Trujillo Emparedados y helados	Ana Trujillo	México D.F.
Antonio Moreno Taquería	Antonio Moreno	México D.F.
Around the Horn	Thomas Hardy	London
Berglunds snabbköp	Christina Berglund	Luleå
Blauer See Delikatessen	Hanna Moos	Mannheim
Blondel père et fils	Frédérique Citeaux	Strasbourg
Bólido Comidas preparadas	Martín Sommer	Madrid
Bon app'	Laurence Lebihan	Marseille
Bottom-Dollar Markets	Elizabeth Lincoln	Tsawassen
B's Beverages	Victoria Ashworth	London
Cactus Comidas para llevar	Patricia Simpson	Buenos Aires
Centro comercial Modezuma	Francisco Chang	México D.F.
Chop-suey Chinese	Yang Wang	Bern
Comércio Mineiro	Pedro Afonso	São Paulo
Consolidated Holdings	Elizabeth Brown	London
Drachenblut Delikatessen	Sven Ottieb	Aachen
Du monde entier	Janine Labrune	Nantes
Eastern Connection	Ann Devon	London
Ernst Handel	Roland Mendel	Graz
Familia Arquibaldo	Aria Cruz	São Paulo
FÍSSA Fabrica Inter. Salchichas S.A.	Diego Roel	Madrid
Folies gourmandes	Martine Rancé	Lille
Folk och fä HB	Maria Larsson	Bräcke
Frankenversand	Peter Franken	München

2.

Display id for all German SUPPLIERS

SELECT SupplierID

FROM suppliers

WHERE Country = 'Germany';

The screenshot shows the phpMyAdmin interface for a database named 'dbswtwobmj7cp' (northwind). The 'Table: suppliers' page is displayed. A SQL query is run:

```

1 | SELECT SupplierID
2 | FROM suppliers
3 | WHERE Country = 'Germany';

```

The results show 3 rows:

SupplierID
11
12
13

3.

Display name and price of all PRODUCTS whose price is between \$10 and \$20

(inclusive) sorted from highest to lowest price

```

SELECT ProductName, UnitPrice
FROM `products`
WHERE UnitPrice
BETWEEN 10 AND 20
ORDER BY UnitPrice DESC;

```

Showing rows 0 - 24 (29 total, Query took 0.0004 seconds.) [UnitPrice: 20.0000... - 12.5000...]

```
SELECT ProductName, UnitPrice FROM `products` WHERE UnitPrice BETWEEN 10 AND 20 ORDER BY UnitPrice DESC;
```

ProductName	UnitPrice
Maxilaku	20.0000
Raviooli Angelo	19.5000
Gula Malacca	19.4500
Chang	19.0000
Inlagd Sill	19.0000
Boston Crab Meat	18.4000
Chai	18.0000
Lakkaliköör	18.0000
Steeleye Stout	18.0000
Chartreuse verte	18.0000
Pavlova	17.4500
Louisiana Hot Spiced Okra	17.0000
Valkoinen suklaa	16.2500
Genen Shouyu	15.5000
Röd Kaviar	15.0000
Outback Lager	15.0000
Singaporean Hokkien Fried Mee	14.0000
Sasquatch Ale	14.0000
Laughing Lumberjack Lager	14.0000
NuNuCa Nuß-Nougat-Creme	14.0000
Escargots de Bourgogne	13.2500
Original Frankfurter grüne Soße	13.0000
Chocolate	12.7500
Gorgonzola Telino	12.5000
Scottish Longbreads	12.5000

4.

Display the PRODUCT name and price for suppliers 10-15 sorted by supplier

number and product name (ie, if the supplier number is the same, it should then

order by name). Do this with only one query

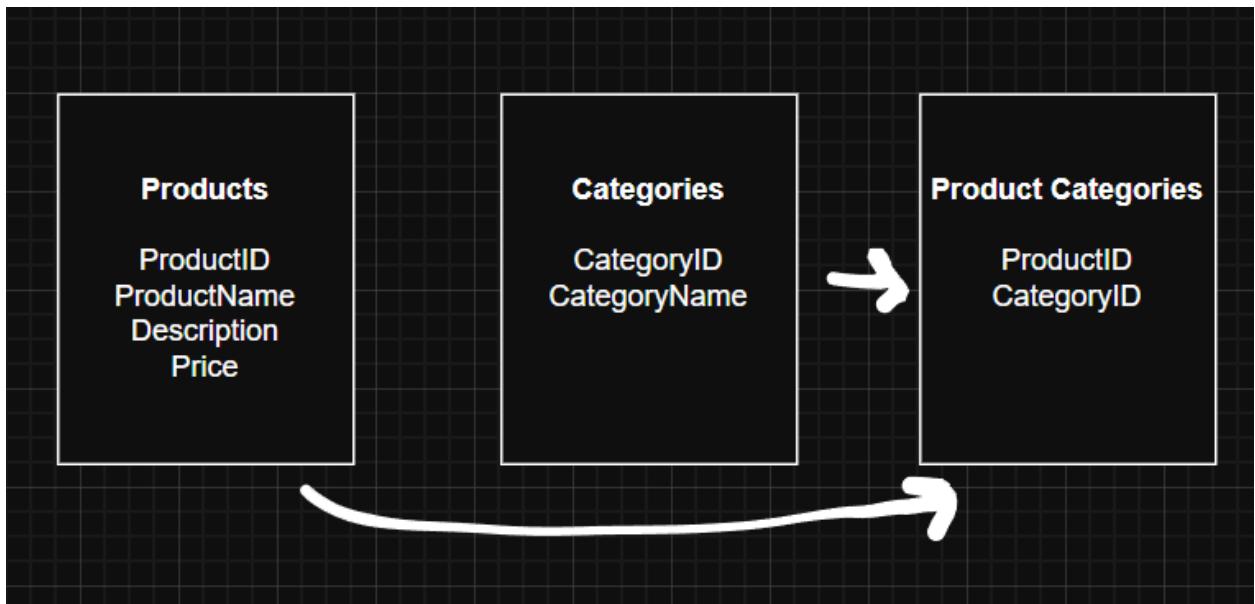
```
SELECT ProductName, UnitPrice
FROM `products`
WHERE SupplierID BETWEEN 10 AND 15
ORDER BY SupplierID, ProductName;
```

The screenshot shows the phpMyAdmin interface for the 'northwind' database. The 'products' table is selected. The table data includes:

ProductName	UnitPrice
Guaraná Fantástica	4.5000
Gumbär Gummibärchen	31.2300
NuNuCa Nuß-Nougat-Creme	14.0000
Schoggi Schokolade	43.9000
Original Frankfurter grüne Soße	13.0000
Rhönbräu Klosterbier	7.7500
Rössle Sauerkraut	45.6000
Thüringer Rostbratwurst	123.7900
Wimmers gute Semmelknödel	33.2500
Nord-Ost Mäjeschering	25.8900
Gorgonzola Telino	12.5000
Mascarpone Fabioli	32.0000
Mozzarella di Giovanni	34.8000
Flatenmyost	21.5000
Geitost	2.5000
Gudbrandsdalsost	36.0000

Part 2: Create an ERD (15 points)

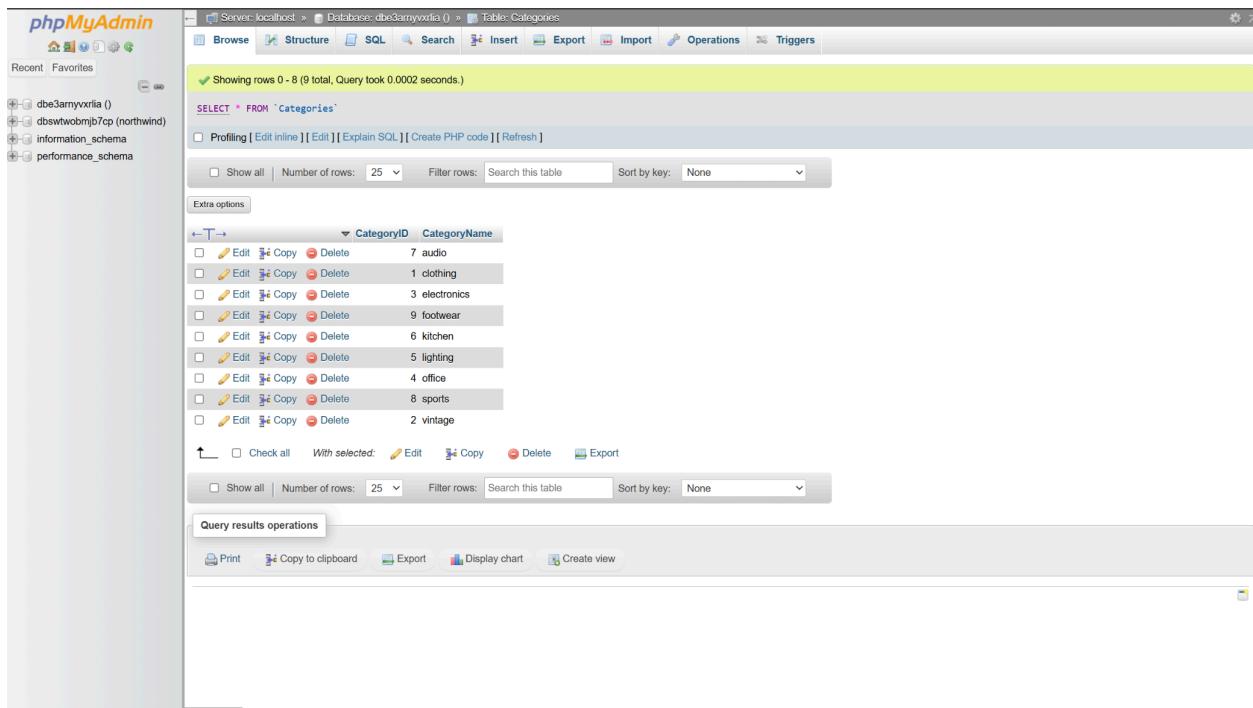
Using the format discussed in class, create an ERD to represent the same product list you used in the last assignment (JSON). Note: to have more than one category for an item you will need an assignment table



Part 3: Create a database (45 points)

- 1. In your cPanel hosting/Siteground, set up a database and create the tables you will need. Add the product data to the tables.
- 2. Create and run queries to show all data in each of your tables.
- a. show all product names and their price

Browse: BROWSE:



The screenshot shows the phpMyAdmin interface for the 'Categories' table in the 'northwind' database. The table has two columns: 'CategoryID' and 'CategoryName'. The data is as follows:

CategoryID	CategoryName
7	audio
1	clothing
3	electronics
9	footwear
6	kitchen
5	lighting
4	office
8	sports
2	vintage

Below the table, there are buttons for 'Edit', 'Copy', and 'Delete' for each row. At the bottom of the page, there are buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

The screenshot shows two instances of the phpMyAdmin interface. The top instance displays the 'ProductCategories' table, which contains 14 rows of data. The bottom instance displays the 'Products' table, which contains 5 rows of data.

ProductCategories Table Data:

ProductID	CategoryID
1	1
5	1
1	2
2	2
3	2
2	3
4	3
2	4
3	4
4	4
2	5
3	6
4	7
5	8
5	9

Products Table Data:

ProductID	ProductName	Description	Price
1	Vintage T-shirt	Tie-die Grateful Dead T-shirt	35000.00
2	Pixar Lamp Halloween	Disney desk lamp	66.00
3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
4	Airpods Pro Max 1000000	Expensive af bluetooth headphones	999.99
5	Hoka sneakers for Boston Marathon	Pro running shoes	189.99

a. show all product names and their price

SELECT ProductName, Price
FROM Products;

Showing rows 0 - 4 (5 total). Query took 0.0008 seconds.

```
SELECT ProductName, Price FROM Products;
```

ProductName	Price
Vinatge Toilet	55000.00
Polar Lamp Halloween	66.00
Apple from Cupertino	15.50
AirPods Pro Max 1000000	999.99
Hoka sneakers for Boston Marathon	189.99

b. show all categories

SELECT *
FROM Categories;

Showing rows 0 - 8 (9 total). Query took 0.0010 seconds.

```
SELECT CategoryID, CategoryName FROM Categories;
```

CategoryID	CategoryName
7	audio
1	clothing
3	electronics
9	footwear
6	kitchen
5	lighting
4	office
8	sports
2	vintage

c. show all products that cost less than \$20

SELECT *
FROM Categories, Products

WHERE Price < 20;

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** localhost
- Database:** dbe3amvyxrlia
- Structure:** Selected tab.
- SQL:** Tab is present but not selected.
- Search:** Tab is present but not selected.
- Query:** Tab is selected.
- Export:** Tab is present but not selected.
- Import:** Tab is present but not selected.
- Operations:** Tab is present but not selected.
- Routines:** Tab is present but not selected.
- Events:** Tab is present but not selected.
- Triggers:** Tab is present but not selected.
- Designer:** Tab is present but not selected.

The SQL query entered is:

```
SELECT * FROM Categories, Products WHERE Price < 20;
```

The results table shows the following data:

CategoryID	CategoryName	ProductID	ProductName	Description	Price
7	audio	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
1	clothing	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
3	electronics	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
9	footwear	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
6	kitchen	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
5	lighting	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
4	office	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
8	sports	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50
2	vintage	3	Apple from Cupertino	Snack to help ace your FAANG interviews	15.50

- d. show all product names and all categories that correspond to them - hint: you will need a join for this.

```
SELECT p.ProductName, c.CategoryName
FROM Products p
JOIN ProductCategories pc ON p.ProductID = pc.ProductID
JOIN Categories c ON pc.CategoryID = c.CategoryID
ORDER BY p.ProductName, c.CategoryName;
```