

A. (Single table query) Develop a query to – Show the product id and product name of any products costing more than 20 (note it should be sorted in alphabetical order abc)

```
SELECT ProductID, ProductName FROM Products
WHERE Price > 20
ORDER BY ProductName
```

ProductID	ProductName
17	Alice Mutton
60	Camembert Pierrot
18	Carnarvon Tigers
4	Chef Anton's Cajun Seasoning
5	Chef Anton's Gumbo Mix
38	Côte de Blaye
71	Fløtemysost
56	Gnocchi di nonna Alice
6	Grandma's Boysenberry Spread
37	Gravad lax
69	Gudbrandsdalsost
26	Gumbär Gummibärchen
22	Gustaf's Knäckebröd
10	Ikura
43	Ipoh Coffee
65	Louisiana Fiery Hot Pepper Sauce
51	Manjimup Dried Apples
32	Mascarpone Fabioli
9	Mishi Kobe Niku

72	Mozzarella di Giovanni
30	Nord-Ost Matjeshering
8	Northwoods Cranberry Sauce
53	Perth Pasties
55	Pâté chinois
11	Queso Cabrales
12	Queso Manchego La Pastora
59	Raclette Courdavault
28	Rössle Sauerkraut
27	Schoggi Schokolade
20	Sir Rodney's Marmalade
61	Sirop d'érable
62	Tarte au sucre
29	Thüringer Rostbratwurst
14	Tofu
7	Uncle Bob's Organic Dried Pears
63	Vegie-spread
64	Wimmers gute Semmelknödel

B Aggregation of a single table (Everyone)

- Show the average price of products in category 6

```
SELECT AVG(Price) FROM Products
WHERE CategoryID = 6
```

AVG(Price)

54.00666666666667

- Show the maximum price of products in category 3

```
SELECT MAX(Price) FROM Products
WHERE CategoryID = 3
```

MAX(Price)

81

- Show the number of products in category 4

```
SELECT COUNT(*) FROM Products
WHERE CategoryID = 4
```

COUNT(*)

10

C. Join 2 tables: Show all the Order IDs with the customer name

```
SELECT OrderID, CustomerName FROM Orders JOIN Customers
WHERE Orders.CustomerID = Customers.CustomerID
```

D. Challenge: What did Ana Trujillo buy?

```
SELECT ProductName
FROM Customers JOIN Orders JOIN OrderDetails JOIN Products
WHERE ContactName = 'Ana Trujillo'
AND Customers.CustomerID = Orders.CustomerID
AND Orders.OrderID = OrderDetails.OrderID
AND OrderDetails.ProductID = Products.ProductID
```

ProductName

Gudbrandsdalsost

Outback Lager