**Tulip Clothing Store**

Tulip opened a new clothing store, and she want to create database to track all the information about customers, products, and suppliers. She wants to track the customer’s address, his/her phone, email address, product he/she bought, order date, ship date, quantity, price, discount if any. About products, she wants to track the supplier of the product, category, name, description, price, size, color, weight, picture, and the availability. She wants to know about the supplier: company name, address, phone, fax, email, salesman information.

BUSINESS RULES:

* Every product has one category.
* Every supplier has many products.

Queries:

1. Query1: shows costumer number 3, his last name first name, order number and order date.

* SELECT CUSTOMERS.LastName, CUSTOMERS.FirstName, ORDERS.OrderNumber, ORDERS.OrderDate

FROM CUSTOMERS INNER JOIN ORDERS ON CUSTOMERS.CustomerID = ORDERS.CustomerID

WHERE (((CUSTOMERS.CustomerID) LIKE 3));

* Result:

| **Query1** | | | |
| --- | --- | --- | --- |
| **LastName** | **FirstName** | **OrderNumber** | **OrderDate** |
| Rob | Christman | 1200100 | 24-Apr-18 |

* Summary:

I countered the problem of the product picture data type, but I searched the internet and I found out what the data type and how to add pictures for access database.

1. Query2: shows all customers information.

* SELECT \*

FROM CUSTOMERS;

* Result:

| **Query2** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **FirstName** | **LastName** | **Address1** | **Address2** | **City** | **State** | **Zip** | **Phone** | **EmailAddress** | **BillingAddress** | **BillingCity** | **BillingState** | **BillingZip** |
| 1 | Griffey | Ben | 5678 25th NE |  | Canton | OH | 44709 | 888-000-4444 | Ben.Griffey@somewhere.com | 4448 25th NE | North Canton | OH | 44720 |
| 2 | Mary | Jacobs | 234 Highland Place |  | Akron | OH | 44203 | 360-285-6666 | Mary.Jacobs@WP.com |  |  |  |  |
| 3 | Christman | Rob | 4567 47th NW |  | North Canton | OH | 44720 | 555-444-2222 | Ch.Rob@AP.com |  |  |  |  |
| 4 | Billy | Jones | 3500 Bonnet St |  | Canton | OH | 44709 | 333-444-5555 | BillyJones@ka.com |  |  |  |  |
| 5 | Tina | Smith | 333 Turkey St |  | Akron | OH | 44312 | 663-330-2229 | TinaSmith@somewhere.com |  |  |  |  |

1. Query3: shows customerID , last name , first name where the customerID is greater than 2 and ordered by last name.

* SELECT CustomerID, LastName, FirstName

FROM CUSTOMERS

WHERE CustomerID >2

ORDER BY LastName DESC;

* Result:

| **Query3** | | |
| --- | --- | --- |
| **CustomerID** | **LastName** | **FirstName** |
| 5 | Smith | Tina |
| 3 | Rob | Christman |
| 4 | Jones | Billy |

1. Query4: shows customer first name, last name , his/her order number, date, productSKU, and price.

* SELECT CUSTOMERS.FirstName, CUSTOMERS.LastName, ORDERS.OrderNumber, ORDERS.OrderDate, ORDERDETAILS.ProductSKU, ORDERDETAILS.Price

FROM (CUSTOMERS LEFT JOIN ORDERS ON CUSTOMERS.CustomerID = ORDERS.CustomerID) LEFT JOIN ORDERDETAILS ON ORDERS.OrderID = ORDERDETAILS.OrderID;

* Result:

| **Query4** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **FirstName** | **LastName** | **OrderNumber** | **OrderDate** | **ProductSKU** | **Price** |
| Griffey | Ben | 1200101 | 24-Apr-18 | 1234567012 | $19.98 |
| Mary | Jacobs | 1200103 | 17-Apr-18 | 1234567012 | $9.99 |
| Christman | Rob | 1200100 | 24-Apr-18 | 1234567015 | $189.99 |
| Billy | Jones | 1200104 | 30-Apr-18 | 1234567014 | $22.98 |
| Tina | Smith | 1200105 | 29-Apr-18 | 1234567017 | $18.99 |

1. Query5: shows all the available products.

* SELECT \*

FROM PRODUCTS

WHERE PRODUCTS.ProductAvailable LIKE true;

* Result:

| **Query5** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ProductSKU** | **CategoryID** | **SupplierID** | **ProductName** | **ProductDescription** | **UnitPrice** | **Size** | **Color** | **UnitWeight** | **Picture** | **ProductAvailable** |
| 1234567012 | 5 | 1 | Beltox Fine Womens Belt | Elastic Stretch Cinch | $9.99 | 35 inches | Black |  |  | Yes |
| 1234567014 | 1 | 2 | Polo Shirt | Regular-Fit Cotton | $12.99 | large | Black |  |  | Yes |
| 1234567017 | 4 | 4 | Handbag | Women's Small Leather Handbag | $20.99 | 8.7" x 6.3" x 2.95" | white | 4 pounds |  | Yes |
| 1234567018 | 3 | 5 | Watch | Casio Men's sports watch | $19.99 | 44mm | gray |  |  | Yes |

1. Query6: shows the products group by color.

* SELECT COUNT(ProductSKU), Color

FROM PRODUCTS

GROUP BY Color;

* Result:

| **Query6** | |
| --- | --- |
| **Expr1000** | **Color** |
| 2 | Black |
| 1 | gray |
| 2 | white |