



Virtual Internship Experience

Final Project

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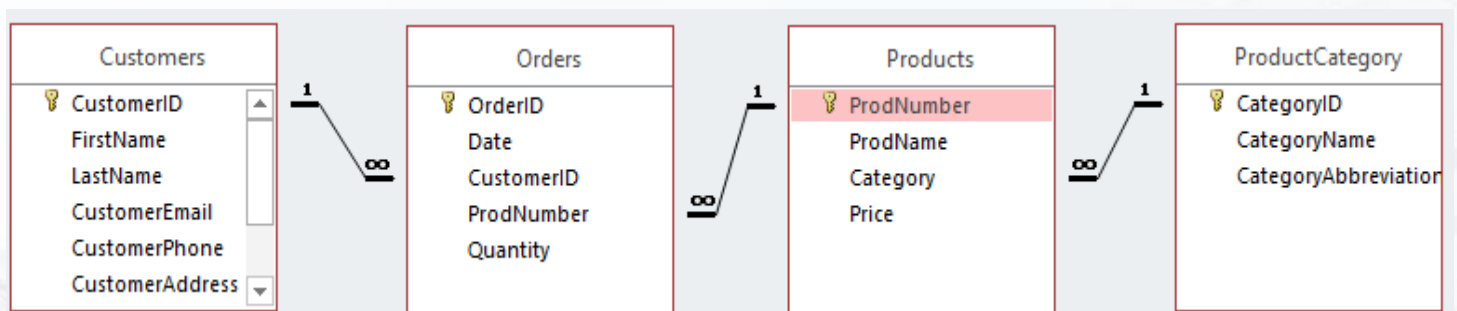
Soal 1

Tentukan masing-masing primary key pada 4 dataset penjualan

1. Primary key tabel Customer : CustomerID
2. Primary key tabel Products : ProdNumber
3. Primary key tabel Orders : OrderID
4. Primary key tabel ProductCategory : CategoryID

Soal 2

Tentukan relationship dari ke-4 table tersebut



- Tabel "Customer" dan "Orders" memiliki relasi "one-to-many"
- Tabel "Products" dan "ProductCategory" memiliki relasi "one-to-many"
- Tabel "Orders" dan "Products" memiliki relasi "many-to-many"

Soal 3

Sebagai BI Analyst PT Sejahtera Bersama, buatlah 1 table master di Ms.Access dari 4 dataset yang ada untuk keperluan analisis dan monitoring.

```
CREATE TABLE master_table AS (
  SELECT
    c.CustomerID,
    o.OrderID,
    o.Date,
    CONCAT(c.FirstName, ' ', c.LastName) AS FullName,
    c.CustomerEmail,
    c.CustomerPhone,
    c.CustomerAddress,
    c.CustomerCity,
    c.CustomerState,
    c.CustomerZip,
    o.ProdNumber,
    o.Quantity,
    pc.CategoryID,
    pc.CategoryName,
    pc.CategoryAbbreviation,
    p.ProdName,
    p.Category,
    p.Price
  FROM
    customers c
  INNER JOIN
    orders o ON c.CustomerID = o.CustomerID
  INNER JOIN
    products p ON o.ProdNumber = p.ProdNumber
  INNER JOIN
    product_categories pc ON p.Category = pc.CategoryID
);
ALTER TABLE master_table ADD PRIMARY KEY (CustomerID,ProdNumber(10), OrderID, CategoryID);
```

```
CREATE TABLE master_table AS (
  SELECT
    CustomerID,
    OrderID,
    Date,
    FullName,
    CustomerCity,
    CustomerState,
    ProdNumber,
    CategoryID,
    CategoryName,
    CategoryAbbreviation,
    ProdName,
    Category,
    SUM(Quantity) AS Total Item Sold,
    SUM(Quantity*Price) AS Total Sales,
  FROM
    master_table
  GROUP BY
    CustomerID,
    OrderID,
    Date,
    FullName,
    CustomerCity,
    CustomerState,
    Quantity,
    ProdNumber,
    ProdName,
    Category,
    Price,
    CategoryID,
    CategoryName,
    CategoryAbbreviation
);
```

Soal 4

Export tabel transaksi detail yang sudah dibuat di Ms. Access dan buatlah visualisasi dashboard dengan table master yang baru saja dibuat untuk keperluan monitoring

Sales Dashboard Bank Muamalat 01 Jan 2020 - 09 Sept 2021

Total Sales
\$499,811

Total Item Sold
3,476

Year

Products Name

State

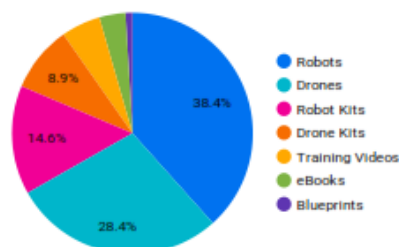
Date (Month)

Category Name

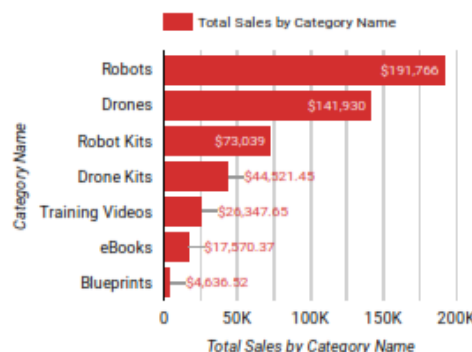
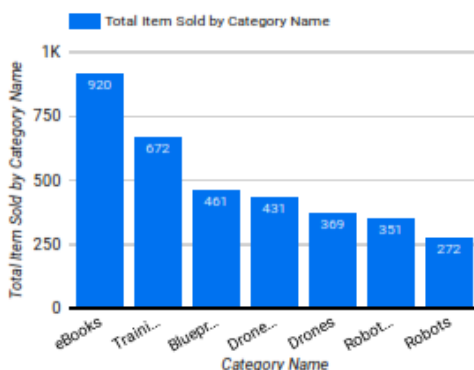
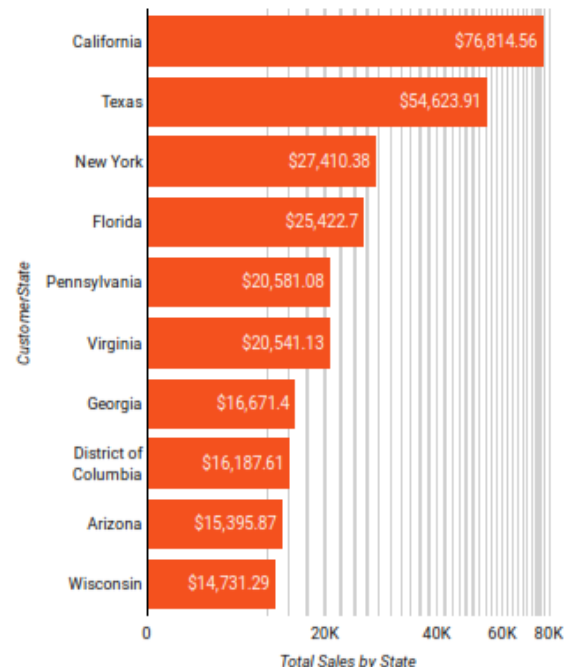
City

Products	Total Sales
1.. RWW-75 Robot	\$41,501
2.. RXW-9807 Robot	\$38,336
3.. MICR-23K Robot	\$35,960
4.. DTI-84 Drone	\$34,580
5.. RQTE-554 Robot	\$30,096
6.. RCB-889 Robot	\$29,097
7.. MICR-564K Drone	\$27,944
8.. DA-SA702 Drone	\$17,556
9.. DTD-7000 Drone	\$17,550
1.. RLK-9920 Robot	\$16,776

Total Sales by Category Products



Total Sales by State



Soal 5

Sebagai BI analyst PT Sejahtera Bersama, apa yang bisa anda usulkan untuk mempertahankan penjualan ataupun menaikkan penjualan dengan tabel transaksi detail yang sudah ada?

- Analisis data transaksi
- Menawarkan diskon dan promosi
- Meningkatkan kualitas produk dan layanan
- Menawarkan paket penjualan
- Memberikan pengalaman pelanggan yang baik.



Bank
Muamalat