DS 230

SQL For Data Analysis

FALL 2021

Final Project

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Analyze Data
Using

List of Business Queries

I am digging into the sales and inventory data to determine if processes need to be changed, existing warehouses need to be closed or new ones opened, and if certain salespeople deserve bonuses. I found the data while nosing around in the other schemas.
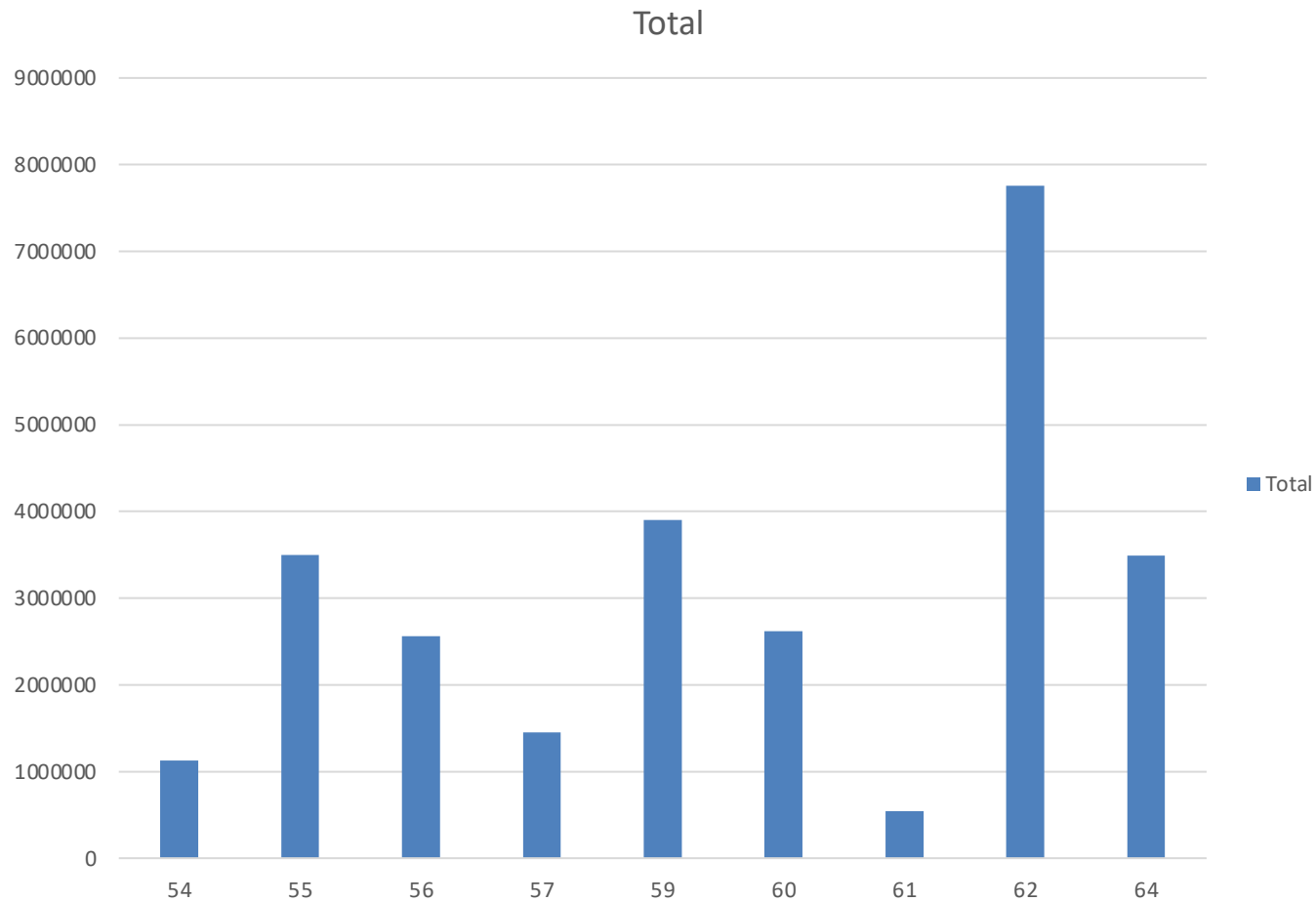
1. Shipped and pending sales by salesperson.

2. List of items shipped and the quantities currently in inventory

3. Item inventory quantities by warehouse

4. General inventory overview

Business Query - 1

Shipped and Pending Order Sales by Salesperson

```sql
SELECT
    a.order_id,
    a.salesman_id,
    SUM(b.quantity * b.unit_price) AS order_total
FROM
        orders a JOIN order_items b
ON a.order_id = b.order_id
WHERE
        a.status = 'Shipped' AND
        a.salesman_id IS NOT NULL
GROUP BY
    a.order_id,
    a.salesman_id
ORDER BY
    order_total DESC;
```

Shipped and Pending Order Sales by Salesperson

Business Query - 2

List of items shipped and the quantities currently in inventory

SQL

```
SELECT
    a.order_id,
    c.product_id,
    d.quantity AS qty_in_stock
FROM
    orders     a,
    order_items b,
    products    c,
    inventories d
WHERE
      a.order_id = b.order_id
    AND b.product_id = c.product_id
    AND c.product_id = d.product_id
    AND a.status = 'Shipped';
group by c.product_id
```

Business Query - 3

Item inventory quantities by warehouse

```
SELECT
    a.product_id,
    b.warehouse_name,
    SUM(a.quantity)
FROM
        inventories2 a
    JOIN warehouses b ON a.warehouse_id = b.warehouse_id
GROUP BY
    b.warehouse_name, a.product_id;
```

Business Query - 4

General inventory overview

SQL

```
SELECT
    a.product_name,
    b.warehouse_id,
    b.quantity,
    c.warehouse_name
FROM
    products2   a,
    inventories2 b,
    warehouses   c
WHERE
     a.product_id = b.product_id
    AND b.warehouse_id = c.warehouse_id
```

Business Queries

In all, a few process changes need to be made, but no warehouses need to be closed at this time.

I learned that Powerpoint is ineffective for showing large visualizations, and one must add a few extra hours for a project due to SQLDeveloper crashes. I also learned I need to manage my time better.

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Business Queries