

CS 4332 Project 2

Ethan West

Query #1:

Finds the total number of items ordered by store number 10.

```
SELECT SUM(Quantity) FROM order_item, retail_order WHERE order_item.OrderNumber =  
retail_order.OrderNumber AND retail_order.StoreNumber = 10
```

Result: 6

Query #2:

Finds the buyer who has bought the most items and there total number of items bought.

```
SELECT buyer.BuyerName, SUM(order_item.Quantity) AS TotalItemsBought FROM buyer JOIN sku_data ON  
buyer.BuyerName = sku_data.Buyer JOIN order_item ON sku_data.SKU = order_item.SKU GROUP BY  
buyer.BuyerName ORDER BY TotalItemsBought DESC LIMIT 1;
```

Result: Nancy Meyers 9

Query #3:

Lists all the buyers and sort them in descending order by the total number of items bought by each buyer.

```
SELECT buyer.BuyerName, SUM(order_item.Quantity) AS TotalItemsBought FROM buyer JOIN sku_data ON  
buyer.BuyerName = sku_data.Buyer JOIN order_item ON sku_data.SKU = order_item.SKU GROUP BY  
buyer.BuyerName ORDER BY TotalItemsBought DESC;
```

Result: Nancy Meyers 9
Cindy Lo 2
Pete Hansen 1

Query #4:

Lists all items ordered, sorted first by quantity and then by price.

```
SELECT sku_data.SKU_Description AS ItemName, order_item.Quantity, order_item.Price FROM order_item  
JOIN sku_data ON order_item.SKU = sku_data.SKU ORDER BY order_item.Quantity DESC,  
CAST(order_item.Price AS DECIMAL(10, 2)) DESC;
```

Result: Dive Mask, Small Clear 4 \$50.00
Dive Mask, Med Clear 2 \$50.00
Dive Mask, Small Clear 2 \$50.00
Half-dome Tent 1 \$300.00
Half-dome Tent Vestibule 1 \$130.00
Std. Scuba Tank, Magenta 1 \$300.00
Dive Mask, Med Clear 1 \$50.00

Query #5:

Lists departments and their respective total number of orders.

```
SELECT sku_data.Department, SUM(order_item.Quantity) AS TotalItemsSold FROM sku_data JOIN
order_item ON sku_data.SKU = order_item.SKU GROUP BY sku_data.Department ORDER BY
TotalItemsSold DESC;
```

Result: Water Sports	10
Camping	2

Query #6:

Find the buyer who bought the most expensive item.

```
SELECT buyer.BuyerName, order_item.Price FROM buyer JOIN sku_data ON buyer.BuyerName =
sku_data.Buyer JOIN order_item ON sku_data.SKU = order_item.SKU ORDER BY CAST(order_item.Price AS
DECIMAL(10, 2)) DESC LIMIT 1;
```

Result: Cindy Lo \$300.00

Query #7:

Find what store bought during 2020.

```
SELECT retail_order.StoreNumber FROM retail_order WHERE OrderYear = 2020;
```

Result: 10
20

Query #8:

Finds the number of items ordered more than once.

```
SELECT sku_data.SKU_Description AS ItemName, order_item.Quantity FROM order_item JOIN sku_data ON
order_item.SKU = sku_data.SKU WHERE order_item.Quantity > 1 ORDER BY order_item.Quantity DESC;
```

Result: Dive Mask, Small Clear	4
Dive Mask, Med Clear	2
Dive Mask, Small Clear	2