**Homework**

1. How many different products are in each order? Which order has the most number of unique products?

1)

SELECT OrderID, Count(Distinct ProductID)

FROM [OrderDetails]

Group by OrderID

2)

SELECT OrderID, Count(Distinct ProductID)

FROM [OrderDetails]

Group by OrderID

Order by Count(ProductID) desc

1. Which products are sold in jars? What is the most expensive product that's sold in jars?

1)

SELECT \*

FROM [Products]

Where Unit like "%jars%"

2)

SELECT \*

FROM [Products]

Where Unit like "%jars%"

Order by price desc

1. What are the product names are included in order ID 10250?

Step 1

SELECT \*

FROM [OrderDetails]

Where OrderID = 10250

Step 2

SELECT \*

FROM [Products]

Where ProductID = 41 or ProductID = 51 or ProductID = 65

1. What products are contained in category 'Dairy Products'?

Step 1

SELECT \*

FROM [Categories]

Where CategoryName = "Dairy Products"

Step 2

SELECT \*

FROM [Products]

Where CategoryID = 4

1. Which actors have the first name 'Scarlett'?

SELECT \*

FROM sakila.actor

WHERE first\_name = "scarlett";

1. Which actors have the last name 'Johansson'

SELECT \*

FROM sakila.actor

WHERE last\_name = "Johansson";

1. How many distinct actors last names are there?

SELECT count(distinct last\_name)

FROM sakila.actor

121

1. Which last names appear more than once?
2. How many total rentals occured in May?

SELECT count(rental\_id)

FROM sakila.rental

WHERE rental\_date between "2005-05-01 00:00:00" and "2005-05-31 23:59:59"

1156

1. How many staff processed rentals in May?

SELECT count(distinct staff\_id)

FROM sakila.rental

WHERE rental\_date between "2005-05-01 00:00:00" and "2005-05-31 23:59:59"

2

1. Which staff processed the most rentals in May?

SELECT staff\_id, count(rental\_id)

FROM sakila.rental

WHERE rental\_date between "2005-05-01 00:00:00" and "2005-05-31 23:59:59"

group by staff\_id

558>598

Staff 1

1. Which customer paid the most rental in August?

SELECT customer\_id, sum(amount), payment\_date

FROM sakila.payment

where payment\_date between "2005-08-01 00:00:00" and "2005-08-31 23:59:59"

group by customer\_id

order by sum(amount) desc

148

1. A summary of rental total amount by month.

SELECT payment\_date, sum(amount)

FROM sakila.payment

Group by payment\_date between "2005-05-01 00:00:00" and "2005-05-31 23:59:59", payment\_date between "2005-06-01 00:00:00" and "2005-6-30 23:59:59", payment\_date between "2005-07-01 00:00:00" and "2005-07-31 23:59:59"

