**W3schools practice**

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

SELECT COUNT(DISTINCT(ProductID)) as NUM\_product, OrderID

FROM [OrderDetails]

Group by OrderID

Order by OrderID asc;

SELECT COUNT(ProductID) as NUM\_product, OrderID

FROM [OrderDetails]

Group by OrderID

Order by NUM\_product DESC;

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

SELECT ProductName, Unit

FROM [Products]

Where Unit like '%jars%'

SELECT ProductName, Unit,Price

FROM [Products]

Where Unit like '%jars%'

Order by Price desc;

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

SELECT ProductName, OrderID

FROM [Products] as p join [OrderDetails] as o

Where OrderID=10250 and p.ProductID=o.ProductID

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

SELECT ProductName,CategoryName

From Products as p,Categories as c

Where p.CategoryID=c.CategoryID and CategoryName='Dairy Products'

* **MySQL sakila practice**

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)) as distinct\_actor FROM sakila.actor;

1. **Which last names appear more than once?**

SELECT last\_name, count(last\_name) as appear\_num FROM sakila.actor

Group by last\_name

having count(last\_name)>1;

1. **How many total rentals occured in May?**

SELECT count(rental\_id) as num FROM sakila.rental

Where rental\_date like '%-05-%';

1. **How many staff processed rentals in May?**

SELECT count(Distinct(staff\_id)) as num FROM sakila.rental

Where rental\_date like '%-05-%';

1. **Which staff processed the most rentals in May?**

SELECT s.first\_name, s.last\_name , count(r.rental\_id) as num

FROM sakila.rental as r join sakila.staff as s

Where r.staff\_id=s.staff\_id and rental\_date like '%-05-%'

group by r.staff\_id

order by count(r.rental\_id) desc;

1. **Which customer paid the most rental in August?**

SELECT c.first\_name, c.last\_name, count(p.amount) as amount

FROM sakila.payment as p join sakila.customer as c

Where p.customer\_id=c.customer\_id and p.payment\_date like'%-08-%'

group by p.customer\_id

order by count(p.amount) desc;

1. **A summary of rental total amount by month.**

SELECT date\_format(payment\_date,'%Y%m') as months, count(amount) as amount

FROM sakila.payment

group by months;