Homework | module 2 > week 6 > day 14

Topics covered: databases & sql

Standard Exercise:

Using the MySQL Database from the w3school website, answer the following questions (*to keep a copy of your queries, after you find the solution, paste the query below each question*):

1. What is the Average Product Price?

SELECT price,
AVG(price) as avg_price
FROM [Products] =28.8

2. How many unique products are there?

SELECT distinct Productid as distinct_productid
FROM Products; =77

3. Using the Customers table, isolate the first names of the customers in a new variable called CustomerFirstName; are there any customers with the same first name? If yes, how many duplicates are there?

SELECT CustomerName,
SUBSTRING_INDEX(Customername, " ", 1) as CustomerFirstName
FROM Customers;

Select
Count (Substring_index(CustomerName, " " ,1) as customer_firstname
Count (Distinct (Substring_index(CustomerName, " " ,1)) as dist_customerfirstname
Count (Substring_index(CustomerName, " " ,1) - Count (Distinct (Substring_index(CustomerName, " " ,1)) as n_duple_name

From Customers;

4. Using the Orders table, create a new variable that calculates the number of days between today and the OrderDate and call it DaysFromOrder.

SELECT * , DATEDIFF(CURRENT_DATE(), OrderDate) AS DaysFromOrder
FROM Orders;

   a. Now convert this variable from days to years and call it YearsFromOrder.

SELECT * , ROUND (DATEDIFF(CURRENT_DATE(), OrderDate)/365) AS YearsFromOrder
FROM Orders;

   b. What is the average difference between OrderDate and current date (in terms of years)?

SELECT * ,
avg(ROUND (DATEDIFF(CURRENT_DATE(), OrderDate)/365)) AS AverageFromOrder
FROM Orders; =25,35

   c. How many years have passed from the oldest order to the most recent one? **SELECT**
MIN(orderdate) as oldest
MAX(orderdate) as most_rec
DATEDIFF(MAX(orderdate),MIN(Orderdate))/365
From Orders

5. Using the Shippers table, create a new variable called Prefix where you isolate the prefix of the Phone variable.

SELECT * ,
Oppure MID <—---- Left(Phone , 5) as Prefix
FROM Shippers;

Advanced Exercise (optional):

Go to the [w3school SQL web editor tool](), look at each of the tables in there and see if you can build the star/snowflake schema that links all those tables to each other (something like the sample schema in the picture below). You can use pen and paper, a google spreadsheet or a more advanced tool such as [lucidchart]().