3+

<https://about.gitlab.com/handbook/business-technology/data-team/platform/sql-style-guide/>

<https://www.sqlstyle.guide/>

<https://www.ibm.com/docs/en/opw/8.2.0?topic=guide-sql-coding-guidelines>

My questions

Q7 - Metadata question: Can you create a list of tables in AdventureWorks that contain a column with one of these names: CatalogDescription.

Q8 - Metadata question: Can you create a list of tables in AdventureWorks that contain a column with one of these names: DiscountPct.

Others:

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NAME: W6.2 - Adventure Works Create Answers

PURPOSE: My script purpose...

MODIFICATION LOG:

Ver Date Author Description

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1.0 03/07/2023 VMOYO 1. Built this script for EC IT143

RUNTIME:

Xm Xs

NOTES:

Built for W6.2 - Adventure Works: Create Answers

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-- Q1: Business User question - Marginal complexity: What are our top ten most expensive products in terms of unit price? Michael McEvoy

-- A1:

Select top 10 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%products%'

Where c.COLUMN\_NAME LIKE '%products%'

select top 10 eph.ProductID, Name , StandardCost

from [Production].[Product] as eph

order by StandardCost desc

--Q1) Business User question - Marginal complexity: How many cultures are in Production for AventureWorks 2019? Jacoc Erickson

--A1)

Select top 10 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%cultures%'

Where c.COLUMN\_NAME LIKE '%culture%'

select eph.CultureID

, count(1) AS rec\_count

From Production.Culture as eph

Group by eph.CultureID

Order by 2 desc;

--Q2) Business User question - Marginal complexity: What was TaxRate for Canadian GST + Alberta Proviincial Tax? Jacob Erickson

--A2)

Select top 10 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%tax%'

Where c.COLUMN\_NAME LIKE '%tax%'

select eph.TaxRate, Name

from Sales.SalesTaxRate as eph

where Name = 'Canadian GST + Alberta Provincial Tax'

--Q4) Business User question - Moderate complexity: Which categories of products have been the least frequently purchased in AdventureWorks? How many units of each category were sold in total?

--Jacob Erickson

--A)

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%sales%'

Where c.COLUMN\_NAME LIKE '%purchase%'

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%sales%'

Where c.COLUMN\_NAME LIKE '%order%'

select [ProductID], [OrderQty]

from [Sales].[SalesOrderDetail]

order by [OrderQty]

select [ProductID], [OrderQty]

from [Production].[WorkOrder]

order by [OrderQty]

--Q5) Business User question - Increased complexity: I need to understand and know more about Purchasing and ShipRates during the last five years.

--Can you create a list that will tell me each different shipping rate per month? I need to know how much money was spent on each shipping method.

--Jacob Erickson

--A)

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%ShipRate%'

select\*

from [Purchasing].[ShipMethod]

--there are 5 Ship Method IDs, each having unique Ship Rates.

--Q6) Business User question - Increased complexity: The company wants who the top sales people and who are the lowest sales people. What is the difference in AdventureWorks between these two groups of people in the year 2022 with total sales? What is the median or average sales in the company for AdventureWorks?

--A6)

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%sales%'

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%year%'

select top 10 [BusinessEntityID] as SalesPersonID\_TopSalesPeople,[SalesLastYear] as TotalSalesFor2022\_Top10

from [Sales].[SalesPerson]

order by [SalesLastYear] desc

select top 10 [BusinessEntityID] as SalesPersonID\_LowestSalesPeople,[SalesLastYear] as TotalSalesFor2022\_Lowest10

from [Sales].[SalesPerson]

order by [SalesLastYear] asc

select top 10 avg([SalesLastYear]) as Average\_For\_TotalSalesFor2022\_Top10

from [Sales].[SalesPerson]

group by [SalesLastYear]

select AVG(TotalSalesFor2022\_Top10) as AverageTopSales2022

from (select top 10 [BusinessEntityID] as SalesPersonID\_TopSalesPeople , [SalesLastYear] as TotalSalesFor2022\_Top10

from [Sales].[SalesPerson]

order by [SalesLastYear] desc)

select avg(TotalSalesFor2022\_Lowest10) as AverageLowest10Sales

from (select top 10 [BusinessEntityID] as SalesPersonID\_LowestSalesPeople,[SalesLastYear] as TotalSalesFor2022\_Lowest10

from [Sales].[SalesPerson]

order by [SalesLastYear] asc)

--Q7) Metadata question: Can you create a list of tables in AdventureWorks that contain a column with one of these names: BusinessEntityID or AnnualRevenue?

-- Author by Jacob Erickson

--A7)

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%Revenue%'

-- the above is not defined

--there are plenty tables with column name BusinessEntityID, the code is below

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%BusinessEntityID%'

--Q8) Metadata question: Can you create a list of tables in AdventureWorks that contain a column with one of these names: SalesPersonID or Sales Territory?

--Author by Jacoc Erickson

--A)

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%sales%'

Where c.COLUMN\_NAME LIKE '%SalesPersonID%'

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%sales%'

Where c.COLUMN\_NAME LIKE '%Territory%'

select [SalesPersonID] --SalesPersonID

from [Sales].[Store]

select SalesTerritory --This cannot be defined

from vSalesPersonSalesByFiscalYears

--Q2 - Business User question - Marginal complexity:What are the top 3 heavy items on the product list? Author: Jorge Elizondo Santos

--A2 Top 3 weights are below

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%weight%'

select top 3 [Weight]

from [Production].[Product]

order by weight desc

--Vez Q6 - Business User question - Increased complexity: How many bicycle accessories incurred in the making of the 2018 Q1 batch, that were colored green and were reserved for para-Olympics.

--Vez A6

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%color%'

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%batch%'

select [Color]

from [Production].[Product]

where [Color] = 'Green'

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%game%'

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%product%'

-- Green is not listed in the colors of bicycles in the AdventureWorks2019 and there are no dedicated bicycles for sport like Para Olympics

--Vez Q5 - Business User question - Increased complexity: What is the customer found in more than one state, who bought more than other customers

-- A5

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%Customer%'

select \*

from [Sales].[Customer]

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

Where c.COLUMN\_NAME LIKE '%state%'

select [CustomerID], [TotalDue]

from [Sales].[SalesOrderHeader]

order by [TotalDue] desc

-- A customer cannot live in different states at once, CustomerID 29641 will pay more.

Select top 10 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE ‘%cultures%’

Where c.COLUMN\_NAME LIKE '%pay%'

select eph.BusinessEntityID

, count(1) AS rec\_count

From HumanResources.EmployeePayHistory as eph

Group by eph.BusinessEntityID

Having count(1) > 1

Order by 2 desc;

--Jacob Erickson

--Q3) Business User question - Moderate complexity: How many sales were completed by the salesperson named “Michael G Blythe” in the 2004? What was the total value of these sales?

--A3

Select top 100 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%%'

Where c.COLUMN\_NAME LIKE '%2004%'

Select top 10 c.\*

From INFORMATION\_SCHEMA.columns as c

--Where c.COLUMN\_NAME LIKE '%sales%'

Where c.COLUMN\_NAME LIKE '%sales%'

select eph.BusinessEntityID, [SalesQuota]

from [Sales].[SalesPerson] as eph

where column name = 2004

order by SalesQuota desc

SELECT GETDATE() AS my\_date;