**-- Quiz Five**

**1. Find the SUM, MIN, MAX, COUNT of SalesOrderDetail**

**2. What is a Null value?**

**3. Find all Null values in the table Names in the Joins database**

**4. The purpose of ISNULL() is to replace a NULL value with another value; Write a query that replaces a Null value with a 'NoMiddleName'for column MiddleName in the following table: [AdventureWorks2012]. [Person]. [Person]**

**5. Use Alter command to add a column called 'Country' to the Names table with the appropriate data type**

**6. What is the total quantizes sold for the item SalesOrderID = '43659'? Use the following table: [AdventureWorks2012]. [Sales]. [SalesOrderDetail]**

**7. What is the total quantizes sold and total count of orders for each SalesOrderID greater than 30? Use the following table: [AdventureWorks2012]. [Sales]. [SalesOrderDetail].**

**--Hint: Use the Having Clause**

**Scroll to the bottom to review answers**

-- Quiz Five

--1. Find the SUM, MIN, MAX, COUNT of SalesOrderDetail

SELECT

[SalesOrderID],

SUM(OrderQty) AS TotalQty,

MIN(OrderQty) AS MinQty,

MAX(OrderQty) AS MaxQty,

COUNT(\*) AS TotalOrders

FROM [AdventureWorks2012].[Sales].[SalesOrderDetail]

GROUP BY [SalesOrderID]

--Visual verification:

Select \*

From [AdventureWorks2012].[Sales].[SalesOrderDetail]

Where SalesOrderID = 43666

--2. What is a Null value?

--Answer:

--NULL values permit entry of a blank data when the value at the time of entry is unknown

--3. Find all Null values in the table Names in the Joins database

--Answer:

Use TSQL

Go

Select \* from Names

Where Social\_Security\_Number IS NULL

--4. The purpose of ISNULL() is to replace a NULL value with another value; Write a query that replaces a Null value with a 'NoMiddleName'for column MiddleName

--in the following table: [AdventureWorks2012]. [Person]. [Person]

Use AdventureWorks2012

Go

SELECT MiddleName,

ISNULL (MiddleName,'NoMiddleName') AS ReplaceNullValue

FROM [AdventureWorks2012]. [Person]. [Person]

--5. Use Alter command to add a column called 'Country' to the Names table with the appropriate data type

--Answer:

Use TSQL

Go

ALTER TABLE Employee

ADD Country varchar (25)

--Verify

Select \* From Employee

--6. What is the total quantizes sold for the item SalesOrderID = '43659'? Use the following table: [AdventureWorks2012]. [Sales]. [SalesOrderDetail]

--Answer:

SELECT [SalesOrderID], SUM ([OrderQty]) AS 'Total Qty'

FROM [AdventureWorks2012]. [Sales]. [SalesOrderDetail]

Where SalesOrderID = '43659'

GROUP BY [SalesOrderID]

ORDER BY [SalesOrderID]

--7. What is the total quantizes sold and total count of orders for each SalesOrderID greater than 30? Use the following table: [AdventureWorks2012]. [Sales]. [SalesOrderDetail].

--Hint: Use the Having Clause

SELECT [SalesOrderID], SUM ([OrderQty]) AS 'Total Qty', COUNT (\*) as TotalOrders

FROM [AdventureWorks2012]. [Sales]. [SalesOrderDetail]

--WHERE [SalesOrderID] IN (43659, 43660, 43661, 43662)

GROUP BY [SalesOrderID]

HAVING COUNT (\*) > 30 --<< Having clause when executed, will filter the GROUP BY results based on this condition

ORDER BY [SalesOrderID]

--747 rows