**--Q1 storyline**

select \* from online\_retail;

CREATE TABLE IF not EXISTS My\_Work4 AS

(

select \*

FROM ONLINE\_Retail

);

ALTER Table My\_Work4 ALTER COLUMN invoicedate SET DATA TYPE DATE

USING TO\_TIMESTAMP(invoicedate, 'MM/DD/YYYY HH24:MI:SS');

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select distinct invoiceno , customerid , country , (quantity\*unitprice) as invoice\_Money

from My\_Work4

where quantity > 0 and unitprice >0 and customerid is not null

order by invoice\_Money desc

limit 1

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select \*

from (select distinct customerid , MAX(invoicedate) over()-

last\_value(invoicedate::date) over( partition by customerid order by invoicedate)

from My\_Work4) as g

where customerid = '16446'

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select \*

from (select \* , rank() over(order by f.summ\_of\_invoices)

from (select customerid , sum (quantity\*unitprice) as summ\_of\_invoices

from My\_Work4

where quantity > 0 and unitprice >0

group by customerid

order by summ\_of\_invoices desc) as f) as s

where customerid = '16446'

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select \*

from (select distinct customerid,

first\_value(invoicedate) over(partition by customerid order by invoicedate) as first\_invoice

,last\_value(invoicedate) over(partition by customerid order by invoicedate

rows between unbounded preceding and unbounded following ) as last\_invoice

,(last\_value(invoicedate) over(partition by customerid order by invoicedate

rows between unbounded preceding and unbounded following )

- first\_value(invoicedate) over(partition by customerid order by invoicedate)) as the\_interval\_between\_firs\_and\_last\_invoice

from My\_Work4 ) as R

where customerid = '16446'

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**The Story I created**

**I calculated the greatest value of a invoice that occurred during the dataset period and then took the customer number, calculated the duration of the last invoice he made, and arranged it amid the purchases made by all customers in the dataset, the date of his first bill, the date of his last invoice, the duration between them, and based on the previous accounts, I may decide to make a discount of 20% on the first invoice coming to this customer.**