**Analytical SQL Use Case**

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**Track:** Data Analytics-Smart

**Q1**

* Top 5 countries by number of orders

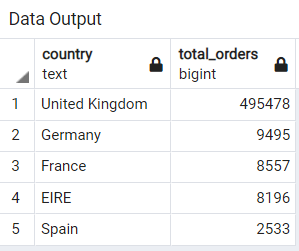
SELECT distinct country,

count(invoice\_no) over(partition by country ) total\_orders

from online\_retail

order by 2 desc

limit 5;



* Most popular product for each country

with t1 as (select distinct(country),

first\_value(stock\_code)over(partition by country

order by tot desc )as most\_saled\_prod

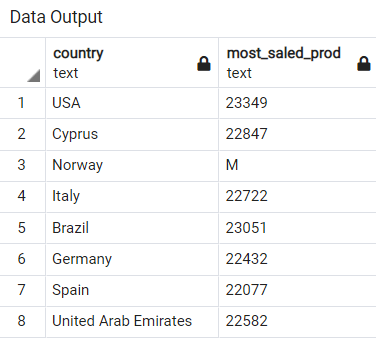
from (

select country,stock\_code,sum(unit\_price)over(partition by customer\_id)::numeric(10,2)as tot from online\_retail

)a

)

select \* from t1;



* **Total sales for each month sorted from most sales to lowest sales**

Select

distinct (inv\_date),

Sum(total\_sales)over(partition by inv\_date, 'Month')::numeric(10) AS TOT\_SALE\_MONTHLY

from (

select

TO\_CHAR(to\_date(invoice\_date,'mm/dd/yy'), 'Month')as inv\_date,

(unit\_price\*quantity) as total\_sales

from online\_retail

)a

order by 2 desc;



* **The country with the highest sales each year**

**select**

**distinct (inv\_date),**

**first\_value(country) over(partition by inv\_date order by total\_sales desc )**

**from (**

**select**

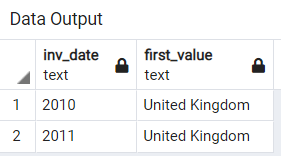
**country,**

**TO\_CHAR(to\_date(invoice\_date,'mm/dd/yy'), 'YYYY')as inv\_date,**

**(unit\_price\*quantity) as total\_sales**

**from online\_retail**

**)a;**

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* **Number of orders per quarter over all years**

**Select**

**distinct (inv\_date),**

**count(invoice\_no)over(partition by inv\_date) AS Tot\_Orders\_Quartarly**

**from (**

**select**

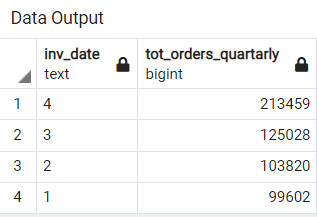
**invoice\_no,**

**TO\_CHAR(to\_date(invoice\_date,'mm/dd/yy'), 'Q')as inv\_date**

**from online\_retail**

**)a**

**order by 2 desc;**

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