**Online Sales – SQL Project**

**Output Screens**

1. **Yearly Grouping**

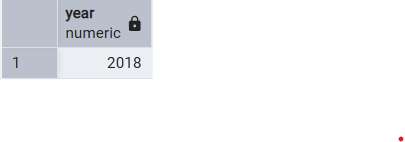
select

extract(year from “order\_date” ) as year

from

orders

group by year;



1. **Year + Month Number Grouping**

select

extract(year from "order\_date" ) as year,

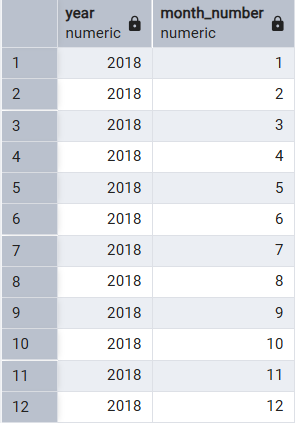
extract(month from "order\_date") as month\_number

from

orders

group by year, month\_number

order by month\_number;



1. **Year + Month Name**

select

extract(year from "order\_date" ) as year,

extract(month from "order\_date") as month\_number,

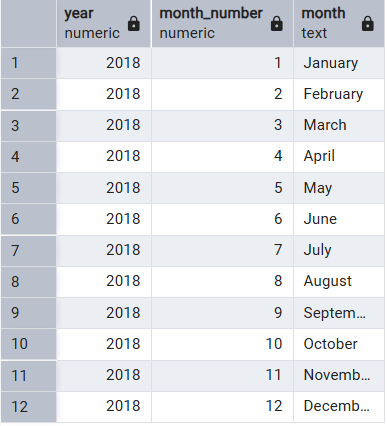
to\_char(order\_date, 'Month') as month

from

orders

group by year, month\_number, month

order by month\_number;



1. **Monthly Revenue**

select

extract(year from o.order\_date ) as year,

extract(month from o.order\_date) as month\_number,

to\_char(order\_date, 'Month') as month,

sum(d.amount) as total\_revenue

from

orders o

join details d

on o.order\_id=d.order\_id

group by year, month\_number, month

order by month\_number;



1. **Monthly Revenue + Total Customers**

select

extract(year from o.order\_date ) as year,

extract(month from o.order\_date) as month\_number,

to\_char(order\_date, 'Month') as month,

sum(d.amount) as total\_revenue,

count(distinct o.order\_id) as total\_customers

from

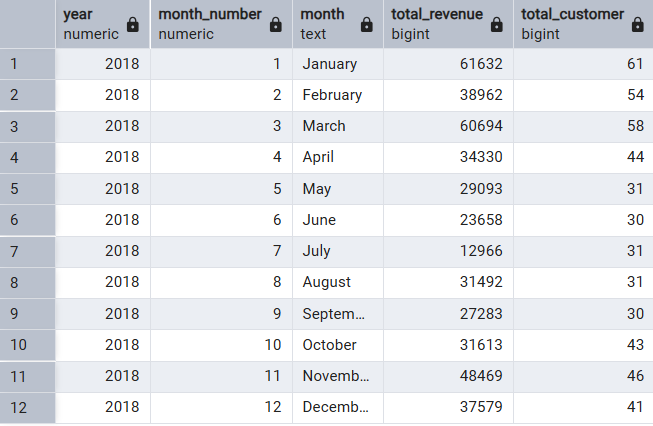
orders o

join details d

on o.order\_id=d.order\_id

group by year, month\_number, month

order by month\_number;



**to\_char(order\_date, 'FMMonth') as month,**



1. **Top 3 Months by Revenue**

select

to\_char(order\_date, 'FMMonth') as month,

sum(amount) as total\_revenue

from

orders o

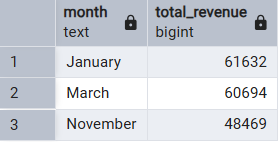
join details d

on o.order\_id=d.order\_id

group by month

order by total\_revenue desc

limit 3;



1. **Month with Highest Average Spending Per Customer**

select

extract(month from o.order\_date) as month\_number,

to\_char(o.order\_date,'FMMonth') as month,

round((sum(amount)::numeric/count(distinct o.customer\_name)),2) as avg\_spending

from

orders o

join details d

on o.order\_id=d.order\_id

group by month\_number,month

order by avg\_spending desc;



1. **City wise Sales**

select

o.city,

sum(d.amount) as total\_revenue

from

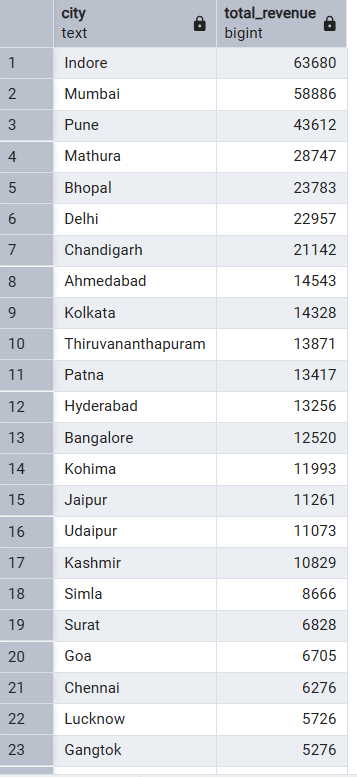
orders o

join details d

on o.order\_id=d.order\_id

group by city

order by total\_revenue desc;



1. **Payment Mode Analysis**

select

d.payment\_mode,

count(distinct o.order\_id) as total\_orders,

sum(d.amount) as total\_revenue

from

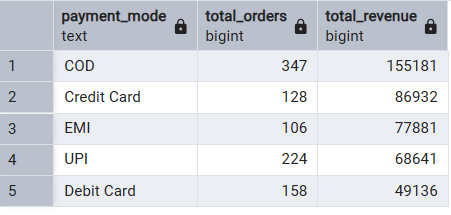
orders o

join details d

on o.order\_id=d.order\_id

group by d.payment\_mode

order by total\_revenue desc;



1. **Category by Profit**

select

category,

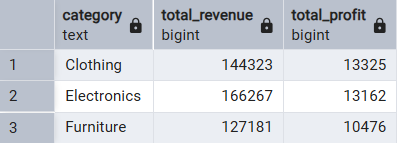
sum(amount) as total\_revenue,

sum(profit) as total\_profit

from details

group by category

order by total\_profit desc;



1. **Sub-category Sales by Quantity**

select

sub\_category,

sum(quantity) as total\_quantity,

sum(profit) as total\_profit

from

details

group by sub\_category

order by total\_quantity desc;

