-- Q1 Average number of items per order - daily, monthly, weekly, state, city, pincode

Select

EXTRACT(DAY from order\_received\_timestamp) AS daily,

EXTRACT(MONTH from order\_received\_timestamp) AS monthly,

EXTRACT(WEEK from order\_received\_timestamp) AS weekly,

a.state AS state,

a.city AS city,

f.pincode AS pincode,

avg(item\_count) as avg\_items

From `fractalb.star\_schema.fact\_daily\_orders` f

left join `fractalb.star\_schema.dim\_customer` c

on f.customerid = c.customerid

left join `fractalb.star\_schema.dim\_address` a

on c.address\_id = a.address\_id

group by

daily,

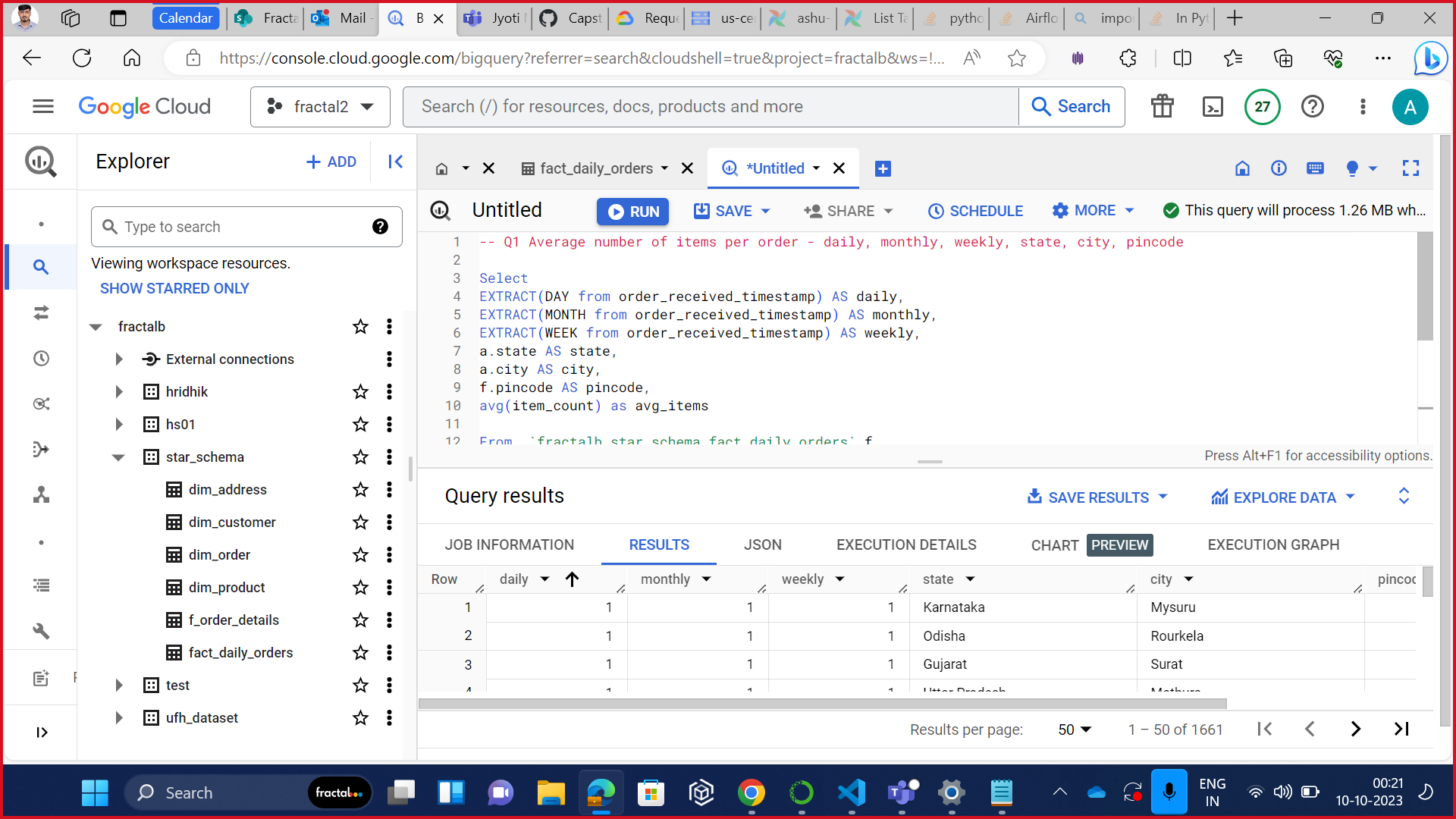
monthly,

weekly,

state,

city,

pincode



-- Q2 Average amount of sales per order - daily, monthly, weekly, state, city, pincode

Select

EXTRACT(DAY from f.order\_received\_timestamp) AS daily,

EXTRACT(MONTH from f.order\_received\_timestamp) AS monthly,

EXTRACT(WEEK from f.order\_received\_timestamp) AS weekly,

a.state AS state,

a.city AS city,

f.pincode AS pincode,

avg(order\_amount) as avg\_sales

From `fractalb.star\_schema.fact\_daily\_orders` f

left join `fractalb.star\_schema.dim\_customer` c

on f.customerid = c.customerid

left join `fractalb.star\_schema.dim\_address` a

on c.address\_id = a.address\_id

group by

daily,

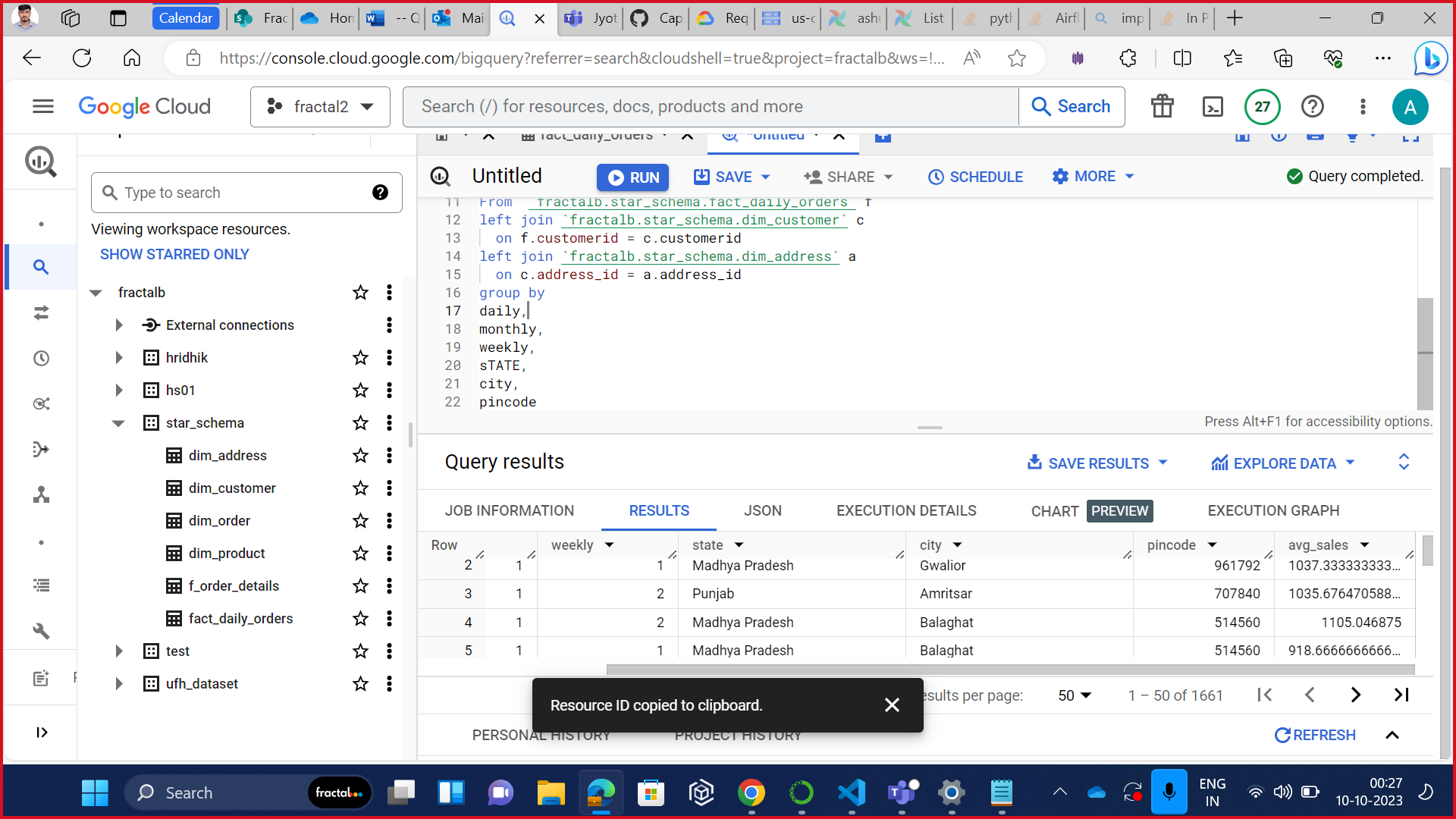
monthly,

weekly,

sTATE,

city,

pincode



-- Q3 total number of units sold per day of a product SKU and its monthly trend

select

p.productname,p.sku,

EXTRACT(DAY from f.order\_delivery\_timestamp) as day,

EXTRACT(MONTH from f.order\_delivery\_timestamp) as month,

sum(quantity) as units\_sold

From `fractalb.star\_schema.dim\_product` p

join `fractalb.star\_schema.f\_order\_details` f

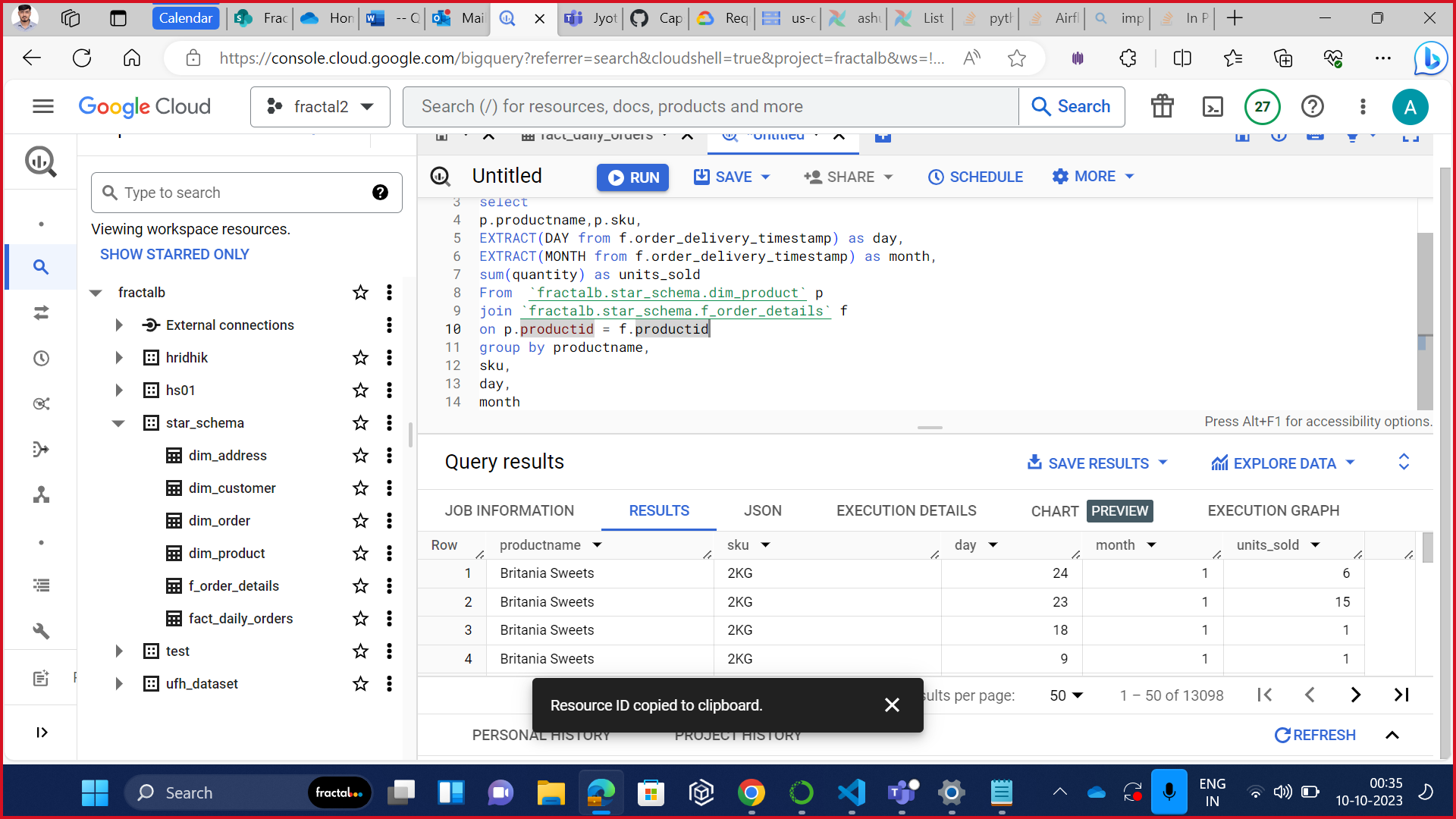
on p.productid = f.productid

group by productname,

sku,

day,

month



-- 4 Total Order Amount on daily basis, also to be able to split by product and geography

select

EXTRACT(DATE from f.order\_received\_timestamp) AS daily,

o.productid,

a.city,

sum(order\_amount) total\_sales

from `fractalb.star\_schema.fact\_daily\_orders` f

join `fractalb.star\_schema.f\_order\_details` o on f.orderid = o.orderid

join `fractalb.star\_schema.dim\_customer` c on f.customerid = c.customerid

join `fractalb.star\_schema.dim\_address` a on c.address\_id = a.address\_id

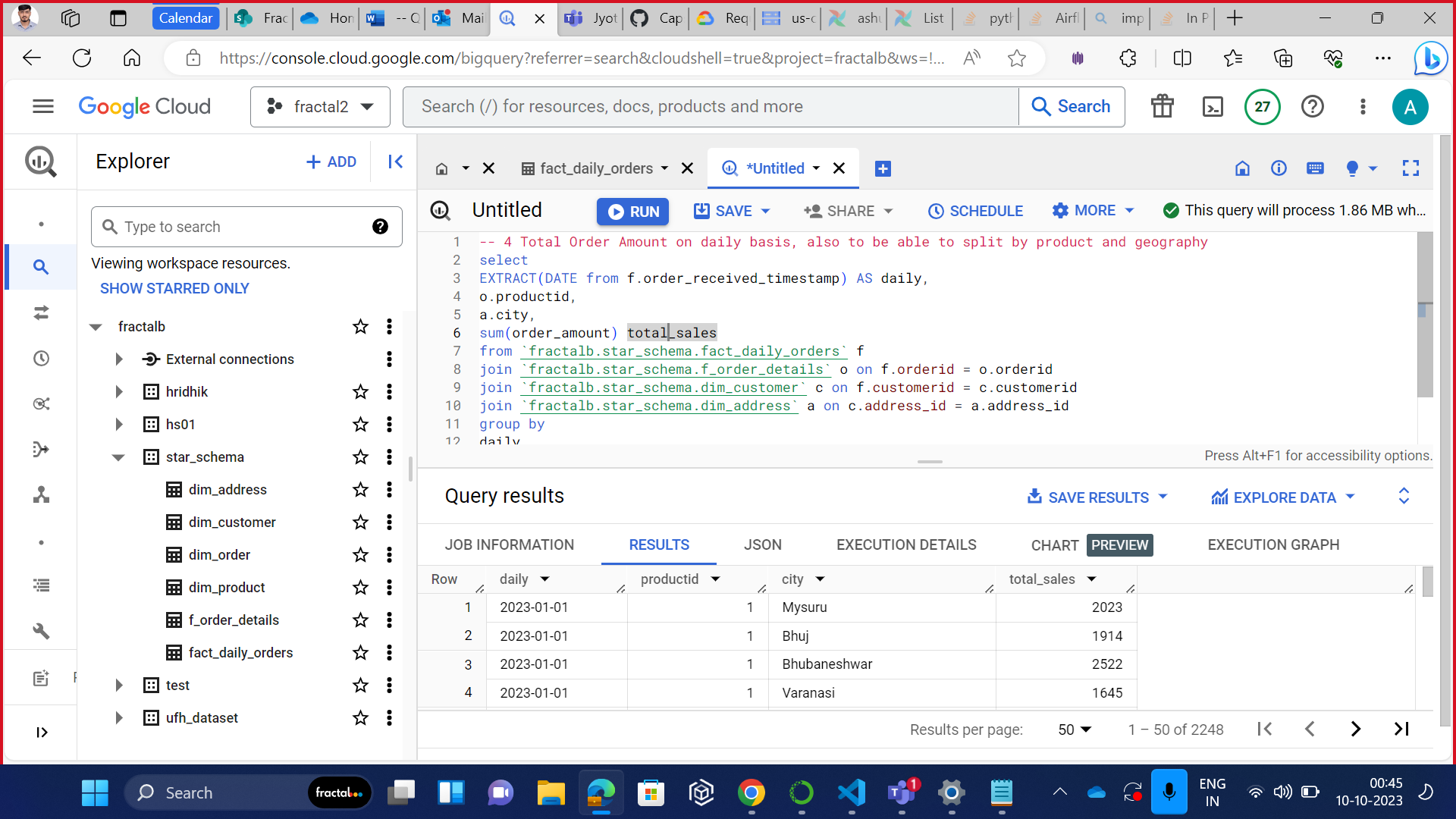
group by

daily,

productid,

city

order by daily



-- Q5 Distribution of orders according to area ( state, city, pincode etc)

select

a.state,

a.city,

count(distinct f.orderid) NumberOfOrders

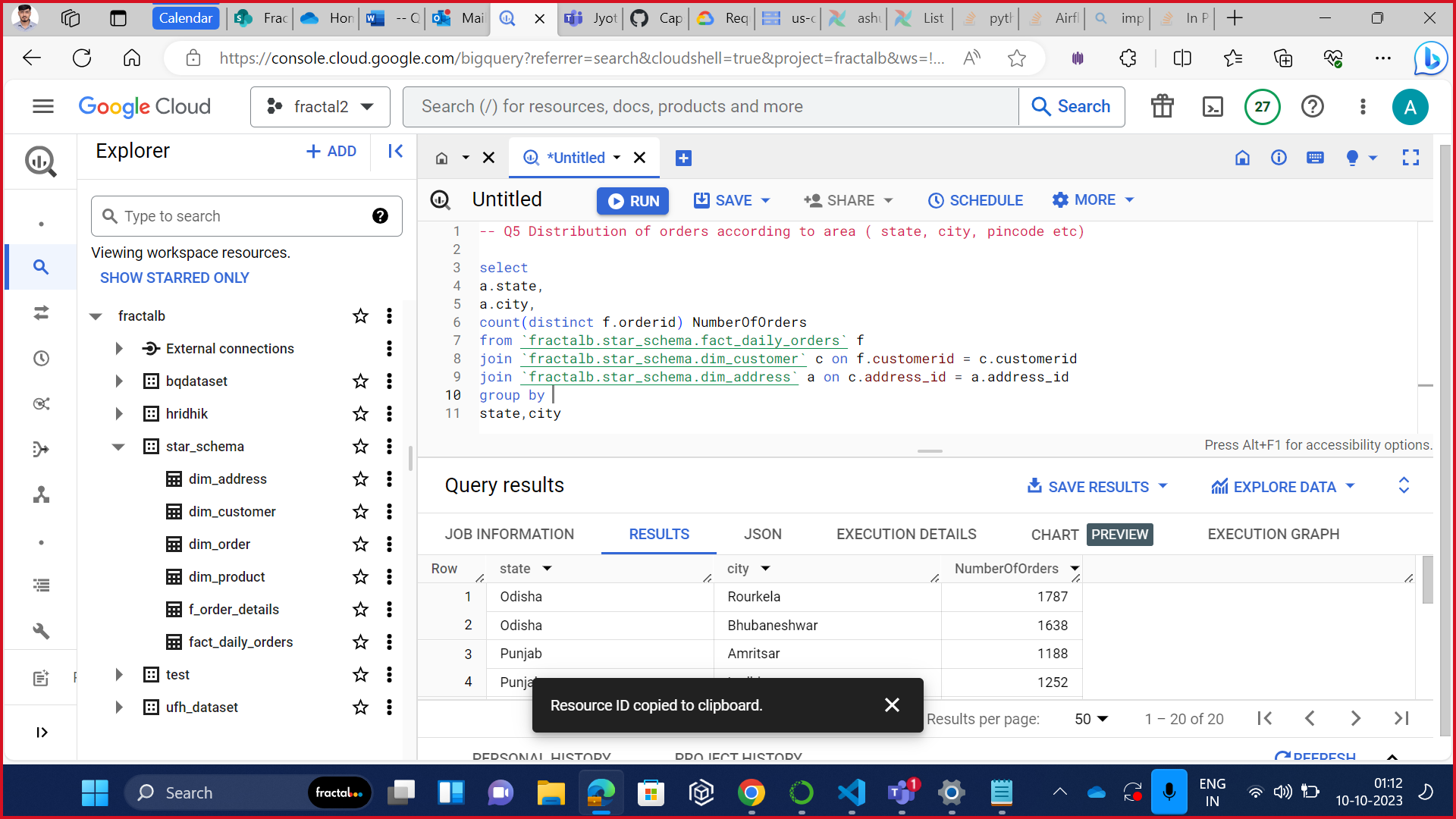
from `fractalb.star\_schema.fact\_daily\_orders` f

join `fractalb.star\_schema.dim\_customer` c on f.customerid = c.customerid

join `fractalb.star\_schema.dim\_address` a on c.address\_id = a.address\_id

group by

state,city



-- Q6 Average order amount per customer on daily basis

select

c.customerid AS id,

c.name AS name,

EXTRACT(DATE from order\_received\_timestamp) date,

round(avg(order\_amount),2) AS OrderAmount

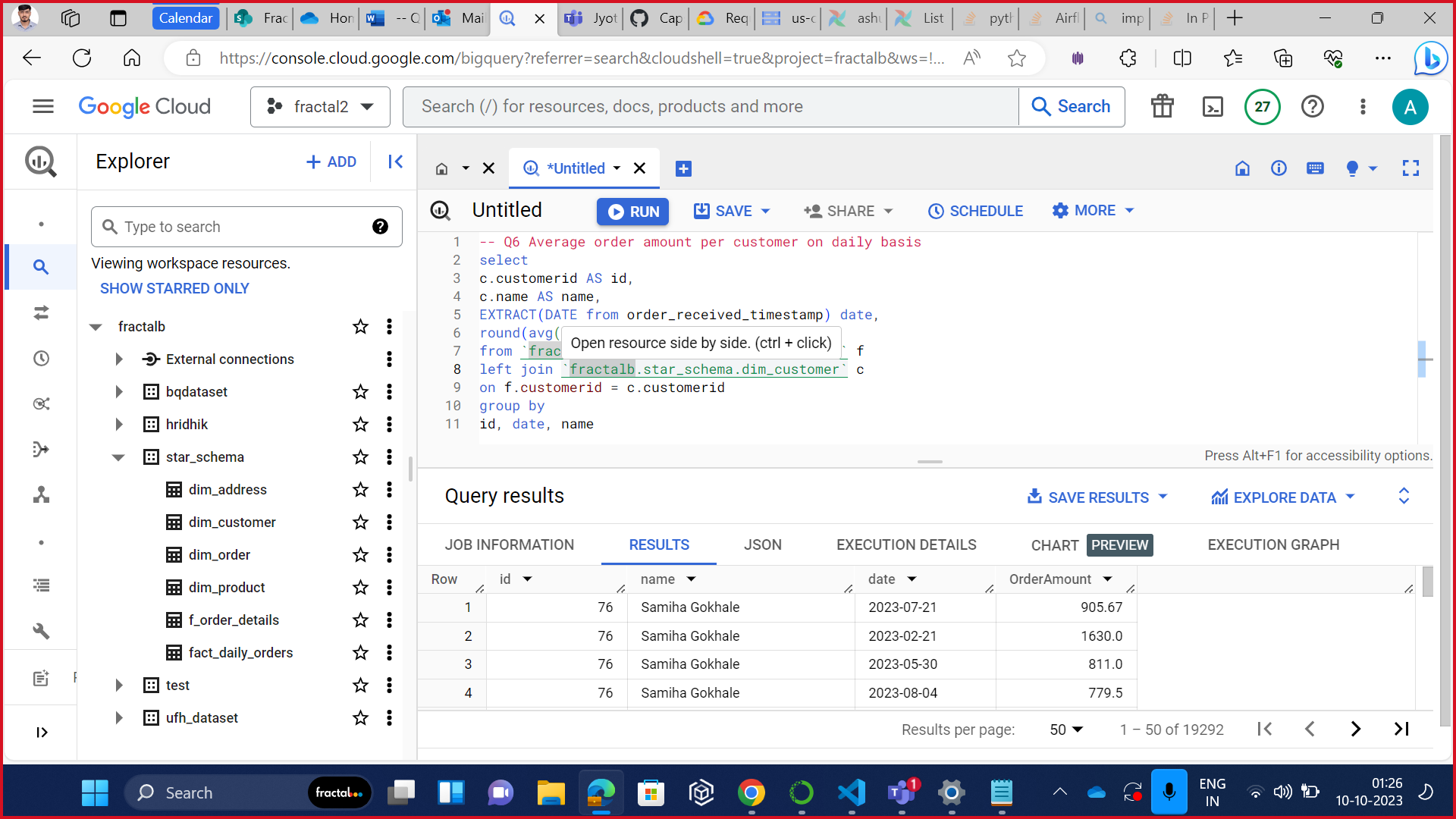
from `fractalb.star\_schema.fact\_daily\_orders` f

left join `fractalb.star\_schema.dim\_customer` c

on f.customerid = c.customerid

group by

id, date, name



-- Q7 New Customers on daily basis

select

START\_DATE,

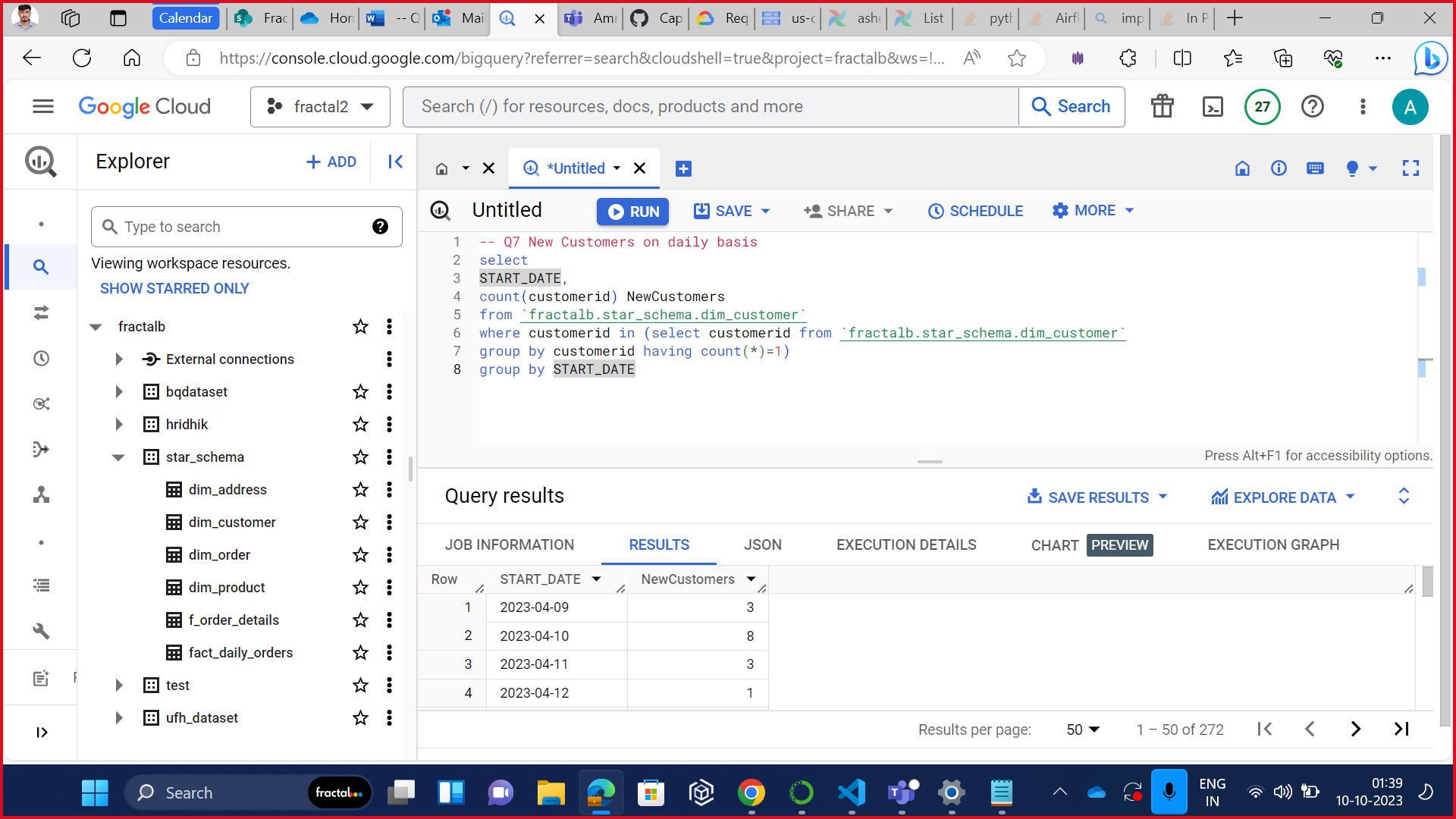
count(customerid) NewCustomers

from `fractalb.star\_schema.dim\_customer`

where customerid in (select customerid from `fractalb.star\_schema.dim\_customer`

group by customerid having count(\*)=1)

group by START\_DATE



-- Q8 Total count of customers everyday

select distinct

EXTRACT(DATE from order\_received\_timestamp) Dates,

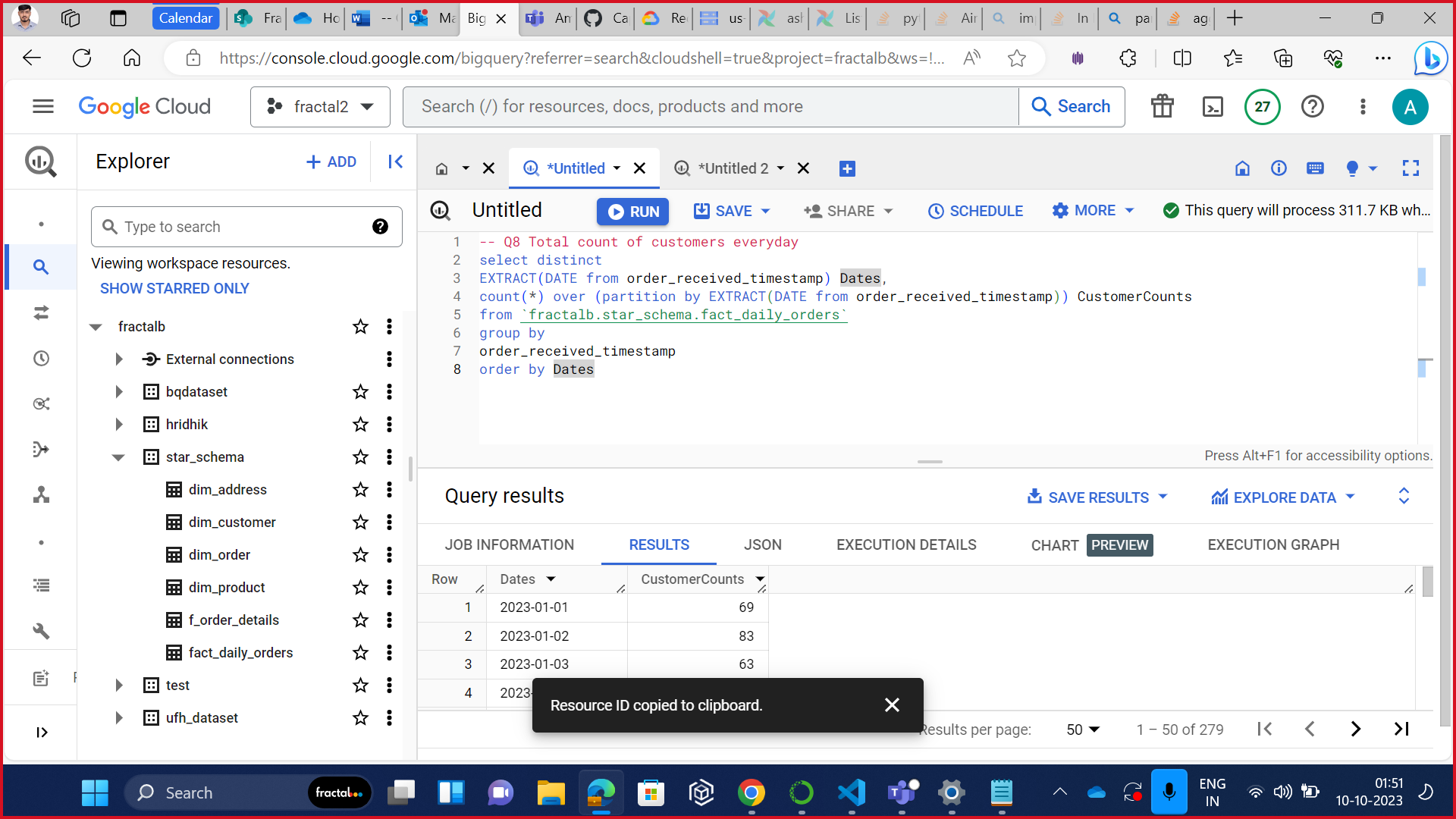
count(\*) over (partition by EXTRACT(DATE from order\_received\_timestamp)) CustomerCounts

from `fractalb.star\_schema.fact\_daily\_orders`

group by

order\_received\_timestamp

order by Dates



-- Q9 Average time to delivery order. Min and Max time. To be able to slice and dice on hour, weekday, weekend, daily, monthly, geography,

select distinct

EXTRACT(DATE from f.order\_delivery\_timestamp) DATES,

EXTRACT(WEEK from f.order\_delivery\_timestamp) WEEKS,

EXTRACT(DAYOFWEEK from f.order\_delivery\_timestamp) WEEKDAYS,

EXTRACT(MONTH from f.order\_delivery\_timestamp) MONTHS,

a.City,

Min(f.order\_delivery\_time\_seconds) MinDeliveryTime,

max(f.order\_delivery\_time\_seconds) MaxDeliveryTime,

avg(f.order\_delivery\_time\_seconds) AvgDeliveryTime,

from `fractalb.star\_schema.fact\_daily\_orders` f

join `fractalb.star\_schema.dim\_customer` c on f.customerid = c.customerid

join `fractalb.star\_schema.dim\_address` a on c.address\_id = a.address\_id

group by

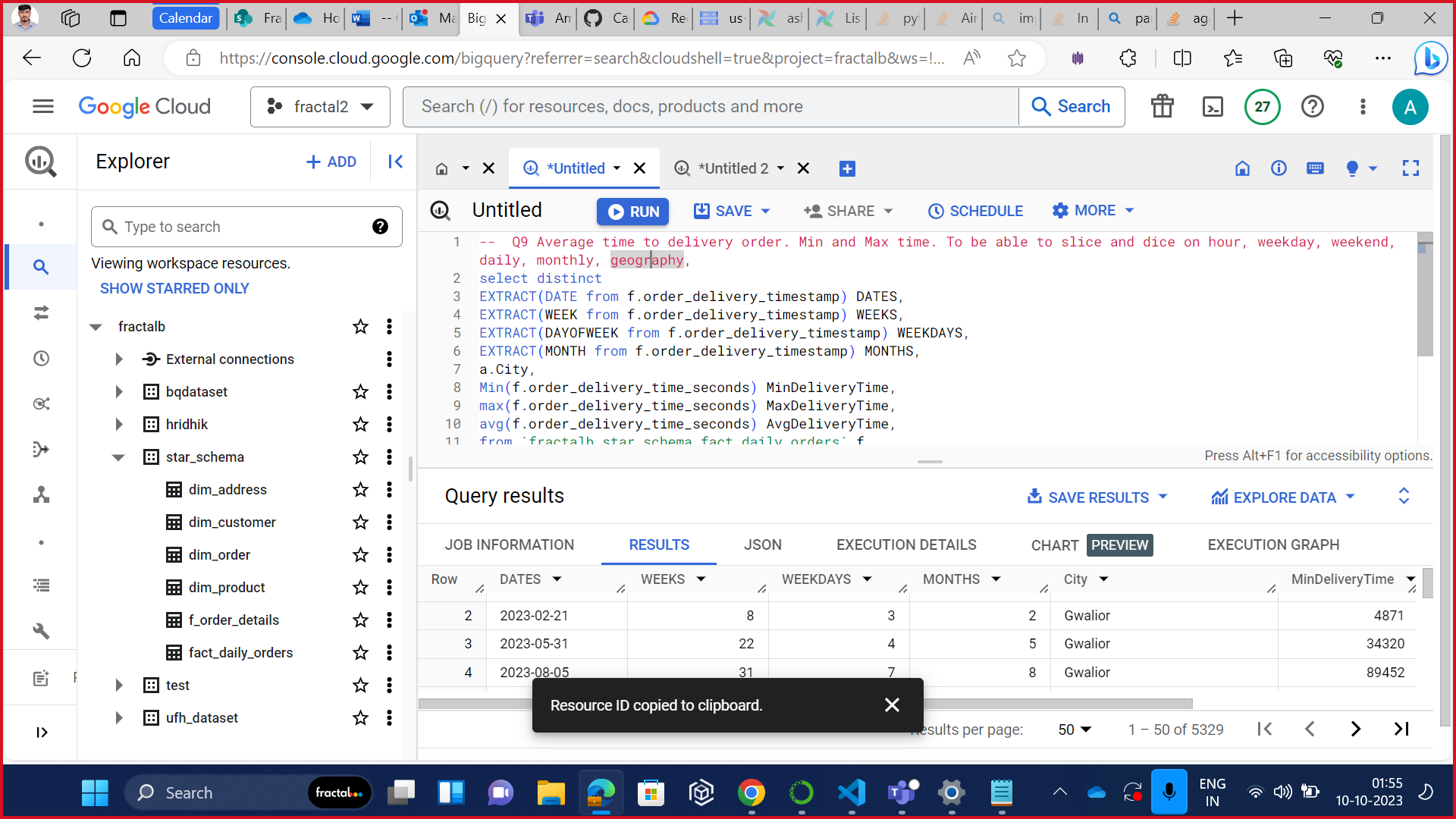
DATES,

WEEKS,

WEEKDAYS,

MONTHS,

City



-- Q10 Total orders : to be able to slice and dice on hour, weekday, weekend, daily, monthly, geography

select distinct

EXTRACT(DATE from f.order\_delivery\_timestamp) DATES,

EXTRACT(WEEK from f.order\_delivery\_timestamp) WEEKS,

EXTRACT(DAYOFWEEK from f.order\_delivery\_timestamp) WEEKDAYS,

EXTRACT(MONTH from f.order\_delivery\_timestamp) MONTHS,

a.City,

count(orderid) NumberOfOrders

from `fractalb.star\_schema.fact\_daily\_orders` f

join `fractalb.star\_schema.dim\_customer` c on f.customerid = c.customerid

join `fractalb.star\_schema.dim\_address` a on c.address\_id = a.address\_id

group by

DATES,

WEEKS,

WEEKDAYS,

MONTHS,

City

