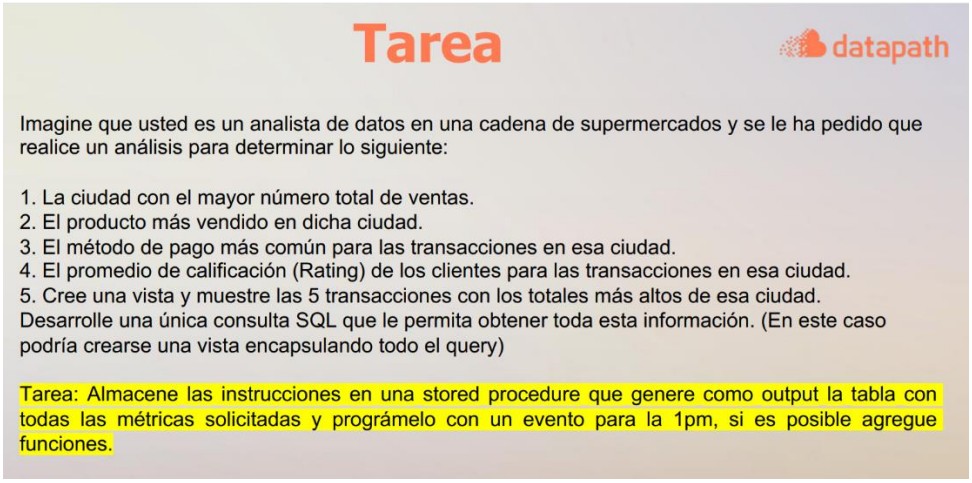
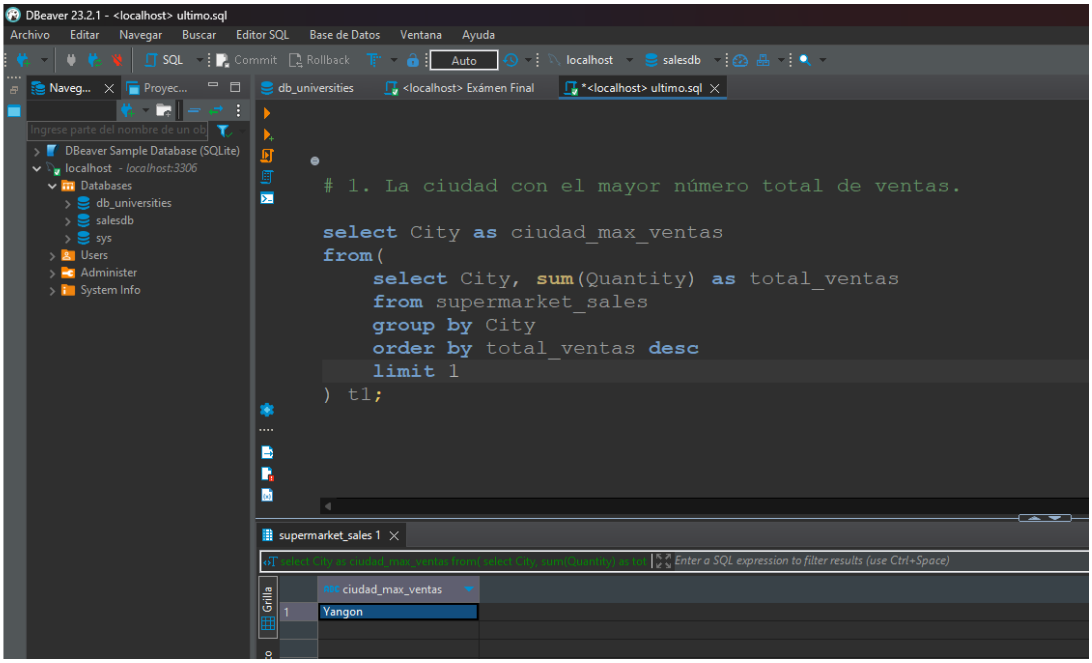
Tarea 2 Base de Datos Relacional

Nombre: Miguel Angel Tinoco Arroyo

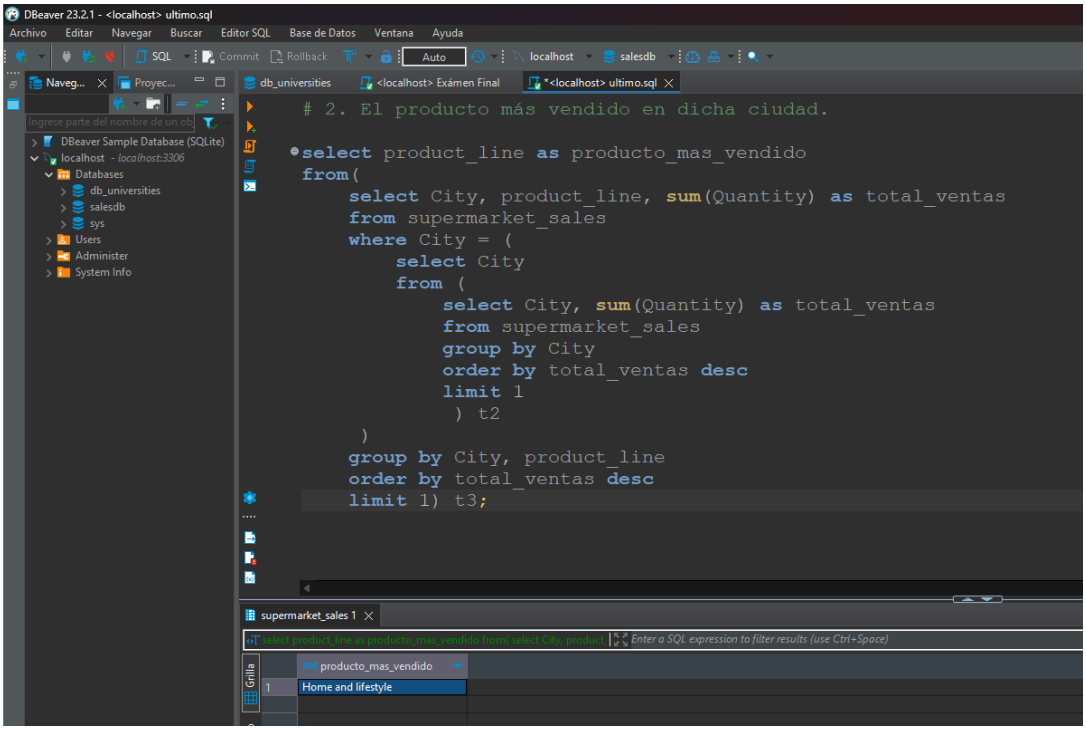


Solución:

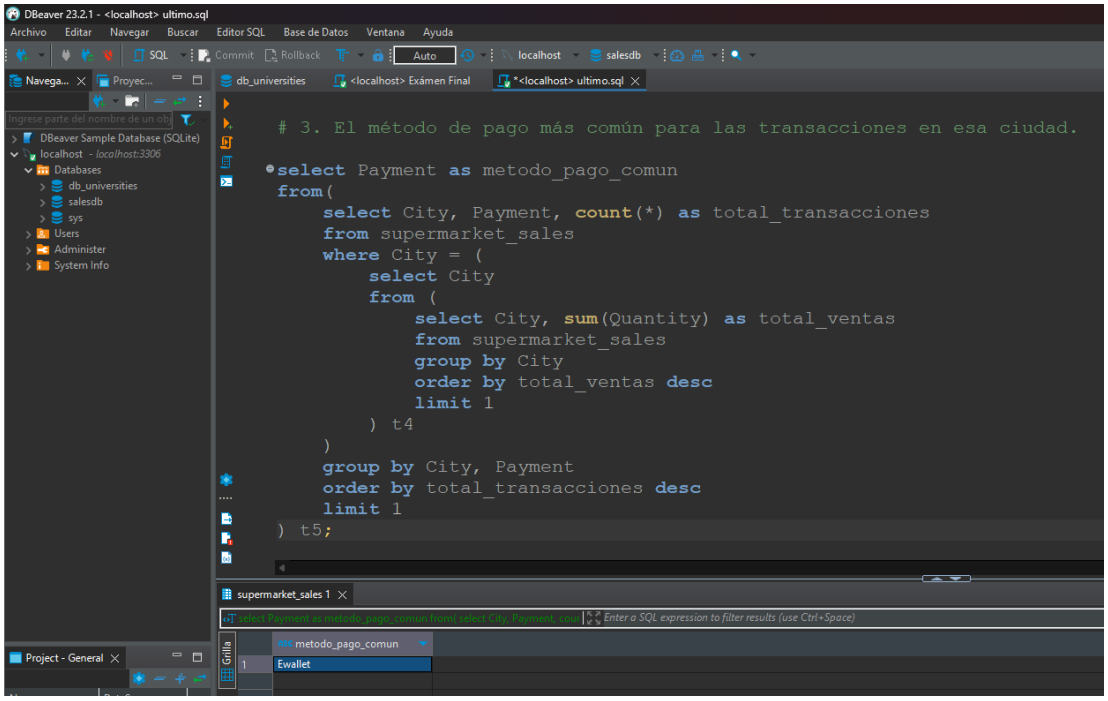
1.



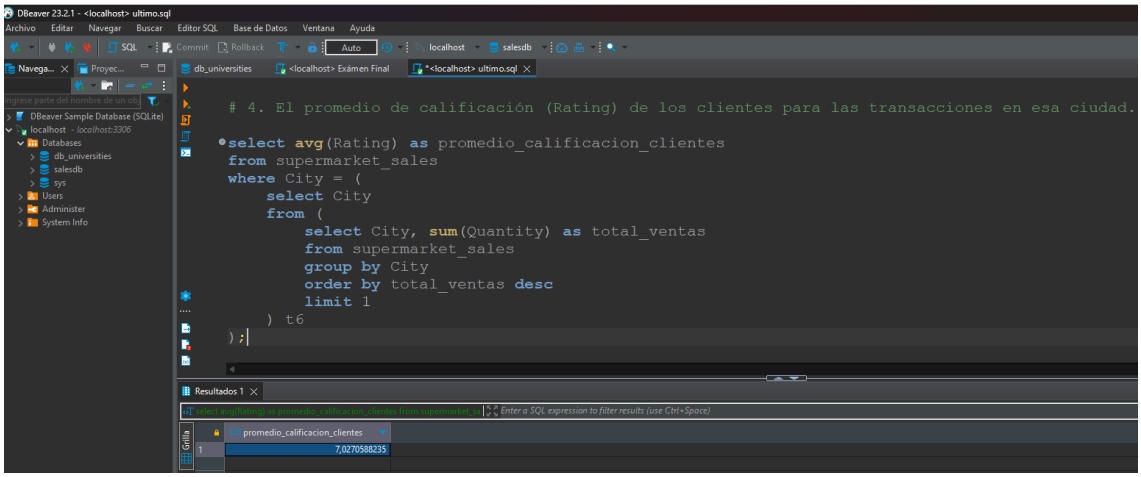
2.


DBeaver 23.2.1 - <localhost> ultimo.sql
Archivo Editar Navegar Buscar Editor SQL Base de Datos Ventana Ayuda
db_universities
<localhost> Exámen Final
*<localhost> ultimo.sql
2. El producto más vendido en dicha ciudad.
select product_line as producto_mas_vendido
from(
select City, product_line, sum(Quantity) as total_ventas
from supermarket_sales
where City = (
select City
from (
select City, sum(Quantity) as total_ventas
from supermarket_sales
group by City
order by total_ventas desc
limit 1
) t2
)
group by City, product_line
order by total_ventas desc
limit 1) t3;
supermarket_sales 1
producto_mas_vendido
Home and lifestyle

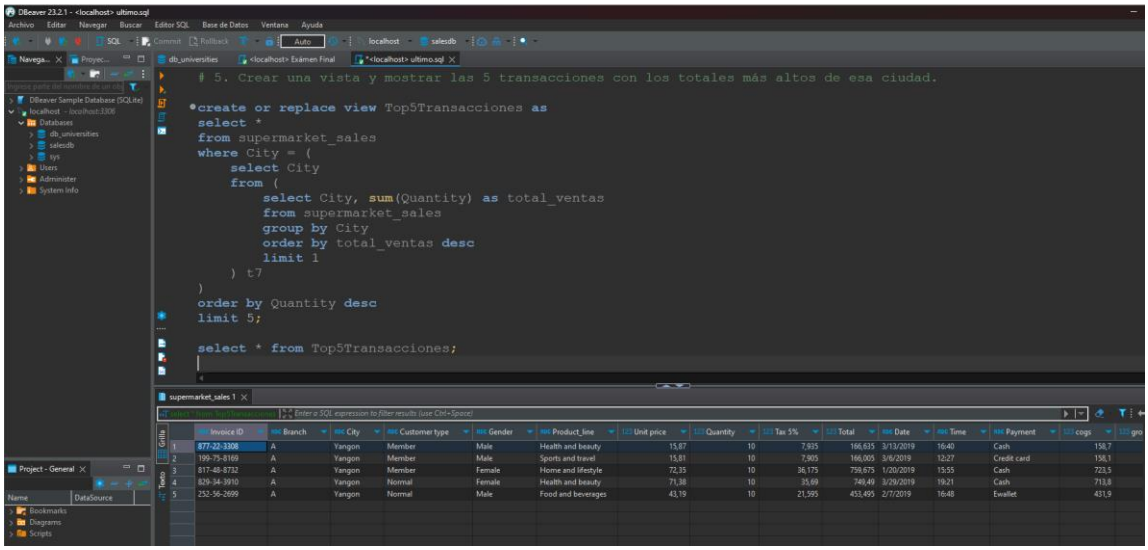
3.


DBeaver 23.2.1 - <localhost> ultimo.sql
Archivo Editar Navegar Buscar Editor SQL Base de Datos Ventana Ayuda
db_universities
<localhost> Exámen Final
*<localhost> ultimo.sql
3. El método de pago más común para las transacciones en esa ciudad.
select Payment as metodo_pago_comun
from(
select City, Payment, count(*) as total_transacciones
from supermarket_sales
where City = (
select City
from (
select City, sum(Quantity) as total_ventas
from supermarket_sales
group by City
order by total_ventas desc
limit 1
) t4
)
group by City, Payment
order by total_transacciones desc
limit 1
) t5;
supermarket_sales 1
metodo_pago_comun
Ewallet

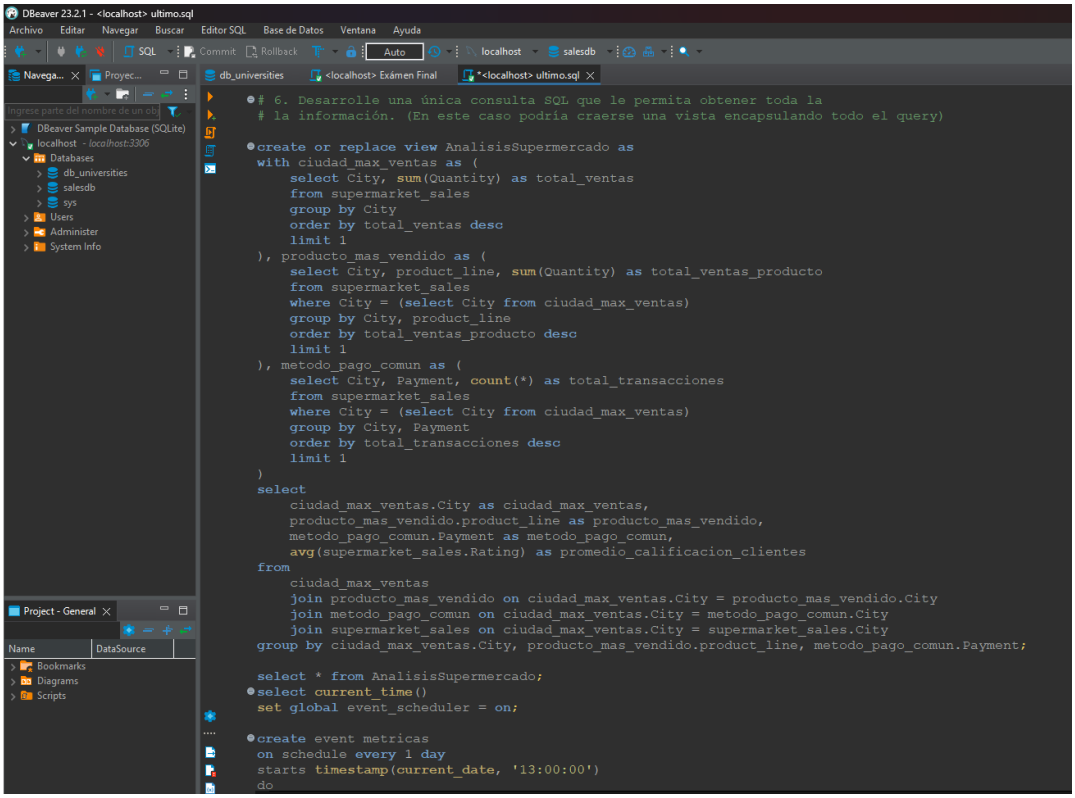
4.


DBeaver 23.2.1 - <localhost> ultimo.sql
4. El promedio de calificación (Rating) de los clientes para las transacciones en esa ciudad.
select avg(Rating) as promedio_calificacion_clientes
from supermarket_sales
where City = (
select City
from (
select City, sum(Quantity) as total_ventas
from supermarket_sales
group by City
order by total_ventas desc
limit 1
) t6
);
Resultados 1
promedio_calificacion_clientes
7,027058235

5.


DBeaver 23.2.1 - <localhost> ultimo.sql
5. Crear una vista y mostrar las 5 transacciones con los totales más altos de esa ciudad.
create or replace view Top5Transacciones as
select *
from supermarket_sales
where City = (
select City
from (
select City, sum(Quantity) as total_ventas
from supermarket_sales
group by City
order by total_ventas desc
limit 1
) t7
)
order by Quantity desc
limit 5;
select * from Top5Transacciones;
supermarket_sales 1

6.

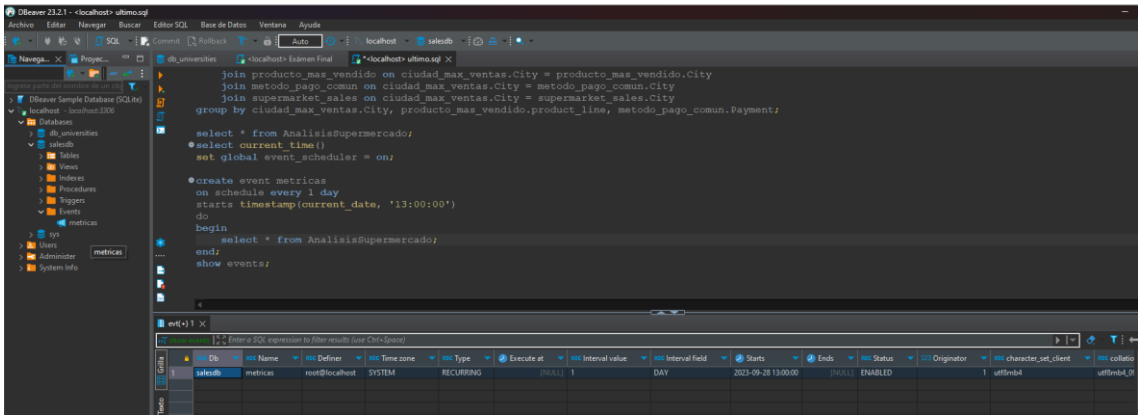


```
# 6. Desarrolle una única consulta SQL que le permita obtener toda la
# la información. (En este caso podria craerse una vista encapsulando todo el query)

create or replace view AnalisisSupermercado as
with ciudad_max_ventas as (
    select City, sum(Quantity) as total_ventas
    from supermarket_sales
    group by City
    order by total_ventas desc
    limit 1
), producto_mas_vendido as (
    select City, product_line, sum(Quantity) as total_ventas_producto
    from supermarket_sales
    where City = (select City from ciudad_max_ventas)
    group by City, product_line
    order by total_ventas_producto desc
    limit 1
), metodo_pago_comun as (
    select City, Payment, count(*) as total_transacciones
    from supermarket_sales
    where City = (select City from ciudad_max_ventas)
    group by City, Payment
    order by total_transacciones desc
    limit 1
)
select
    ciudad_max_ventas.City as ciudad_max_ventas,
    producto_mas_vendido.product_line as producto_mas_vendido,
    metodo_pago_comun.Payment as metodo_pago_comun,
    avg(supermarket_sales.Rating) as promedio_calificacion_clientes
from
    ciudad_max_ventas
    join producto_mas_vendido on ciudad_max_ventas.City = producto_mas_vendido.City
    join metodo_pago_comun on ciudad_max_ventas.City = metodo_pago_comun.City
    join supermarket_sales on ciudad_max_ventas.City = supermarket_sales.City
group by ciudad_max_ventas.City, producto_mas_vendido.product_line, metodo_pago_comun.Payment;

select * from AnalisisSupermercado;
select current_time()
set global event_scheduler = on;

create event metricas
on schedule every 1 day
starts timestamp(current_date, '13:00:00')
do
```



```
    join producto_mas_vendido on ciudad_max_ventas.City = producto_mas_vendido.City
    join metodo_pago_comun on ciudad_max_ventas.City = metodo_pago_comun.City
    join supermarket_sales on ciudad_max_ventas.City = supermarket_sales.City
group by ciudad_max_ventas.City, producto_mas_vendido.product_line, metodo_pago_comun.Payment;

select * from AnalisisSupermercado;
select current_time()
set global event_scheduler = on;

create event metricas
on schedule every 1 day
starts timestamp(current_date, '13:00:00')
do
begin
    select * from AnalisisSupermercado;
end;
show events;
```