TABLE CREATION:

create table customers as select \* from ass4.customers

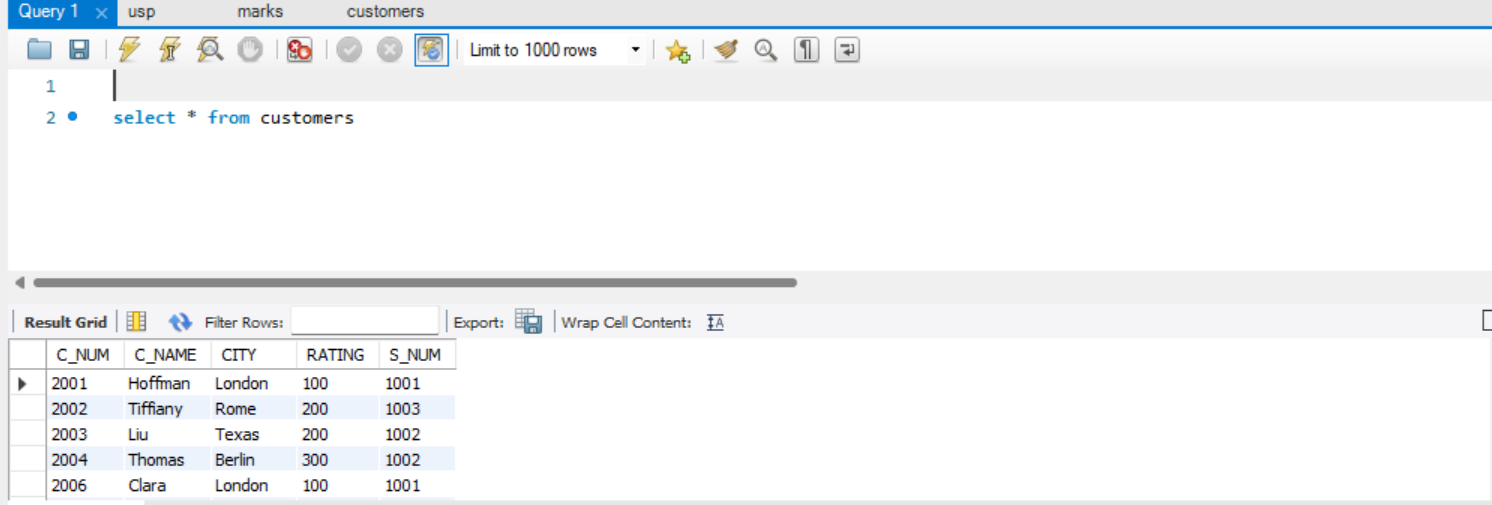
create table SALES\_PERSON as select \* from ass4. SALES\_PERSON

create table orders as select \* from ass4.orders

A.

update customers set city="Texas"

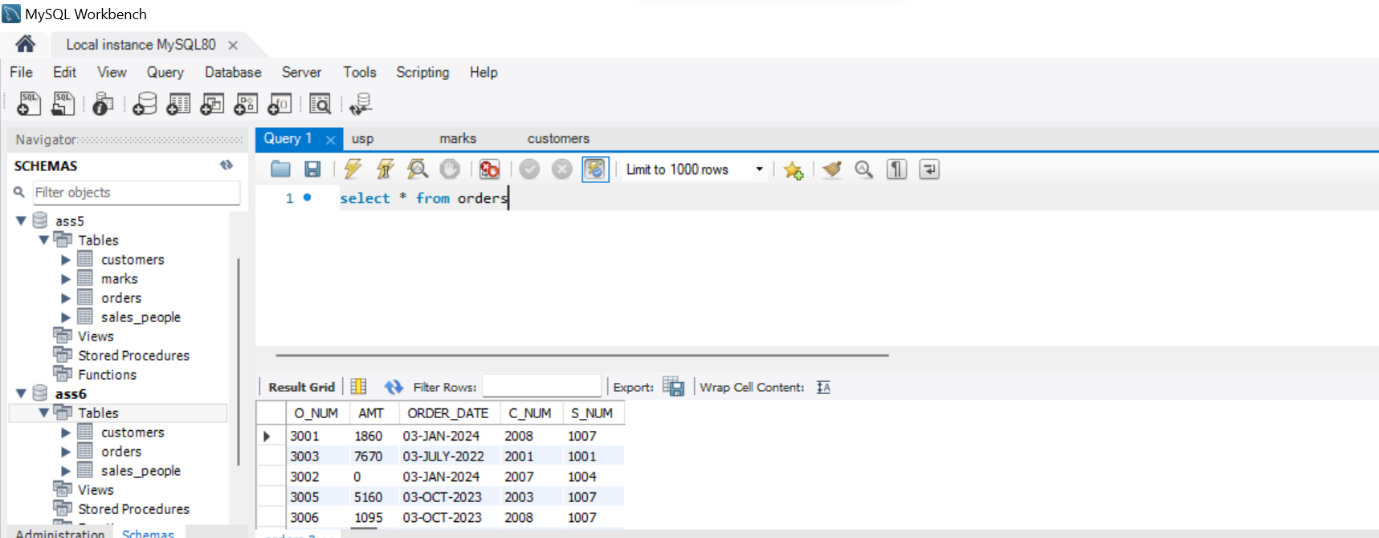
where C\_NAME="Liu"



B.

delete from orders

where str\_to\_date(ORDER\_DATE,'%d-%M-%Y') < str\_to\_date('2022-06-15','%Y-%m-%d');



C.

SELECT sp.S\_NUM AS salesperson\_id, sp.S\_NAME AS salesperson\_name,

cp.C\_NUM AS customer\_id, cp.C\_NAME AS customer\_name,

cust\_avg.avg\_order\_amount AS customer\_avg\_order\_amount,

sp\_avg.avg\_order\_amount AS salesperson\_avg\_order\_amount

FROM sales\_people AS sp

JOIN customers AS cp ON sp.S\_NUM = cp.S\_NUM

JOIN (

SELECT c.S\_NUM, c.C\_NUM, AVG(o.AMT) AS avg\_order\_amount

FROM customers AS c

JOIN orders AS o ON c.C\_NUM = o.C\_NUM

GROUP BY c.S\_NUM, c.C\_NUM

) AS cust\_avg ON cp.S\_NUM = cust\_avg.S\_NUM AND cp.C\_NUM = cust\_avg.C\_NUM

JOIN (

SELECT c.S\_NUM, AVG(AMT) AS avg\_order\_amount

FROM customers AS c

JOIN orders AS o ON c.C\_NUM = o.C\_NUM

GROUP BY c.S\_NUM

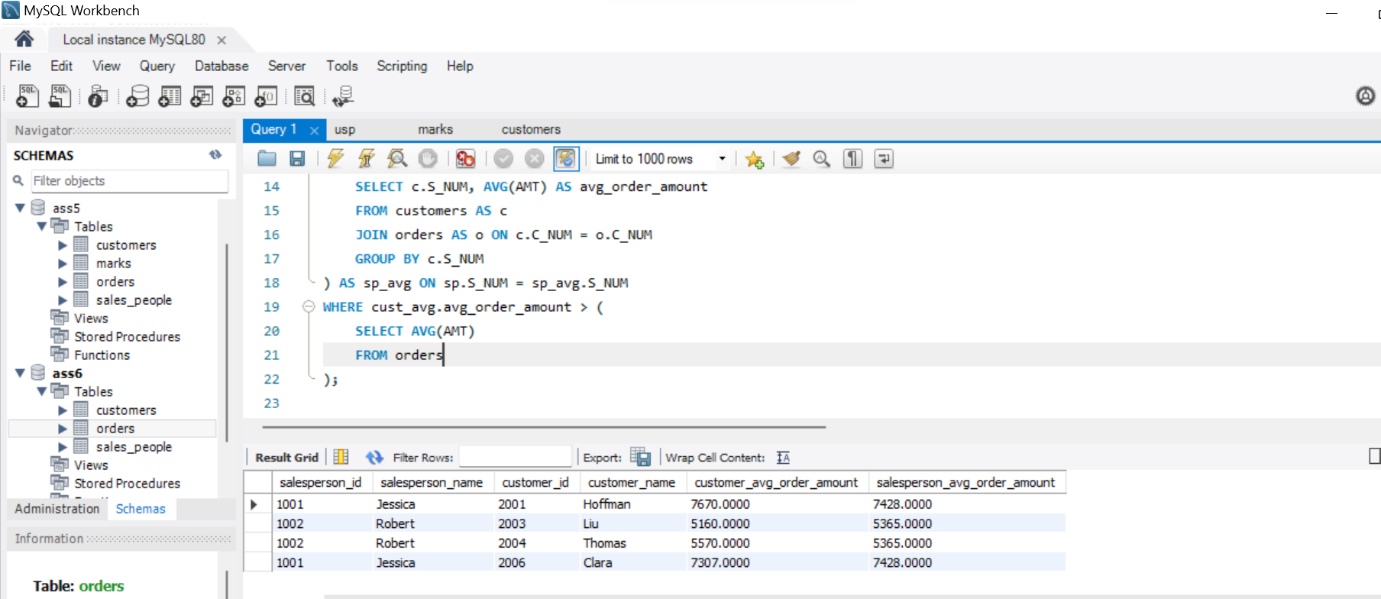
) AS sp\_avg ON sp.S\_NUM = sp\_avg.S\_NUM

WHERE cust\_avg.avg\_order\_amount > (

SELECT AVG(AMT)

FROM orders

);



D,

SELECT S\_NUM AS ID, S\_NAME AS Name

FROM sales\_people

WHERE S\_NUM IN (

SELECT S\_NUM

FROM orders

GROUP BY S\_NUM

HAVING COUNT(\*) > 1

)

UNION

SELECT C\_NUM AS ID, C\_NAME AS Name

FROM customers

WHERE C\_NUM IN (

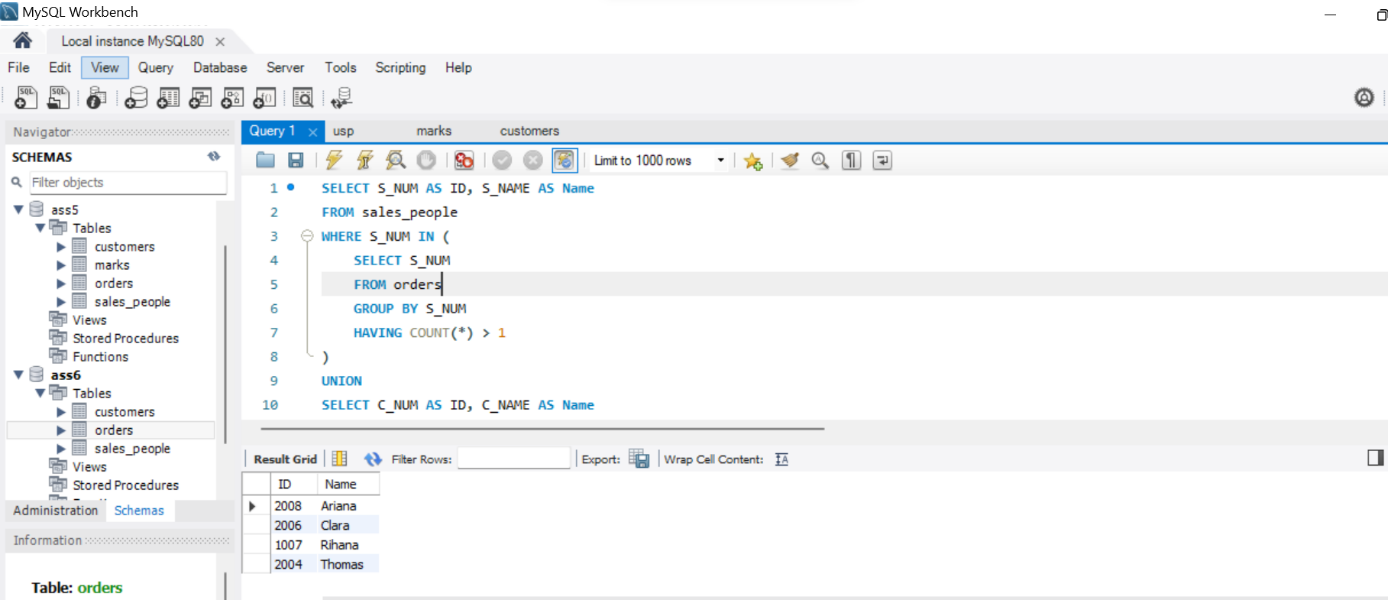
SELECT C\_NUM

FROM orders

GROUP BY C\_NUM

HAVING COUNT(\*) > 1

)

ORDER BY Name;

E.

SELECT C\_NAME, rating

FROM customers

WHERE city = 'London'

AND rating > 200

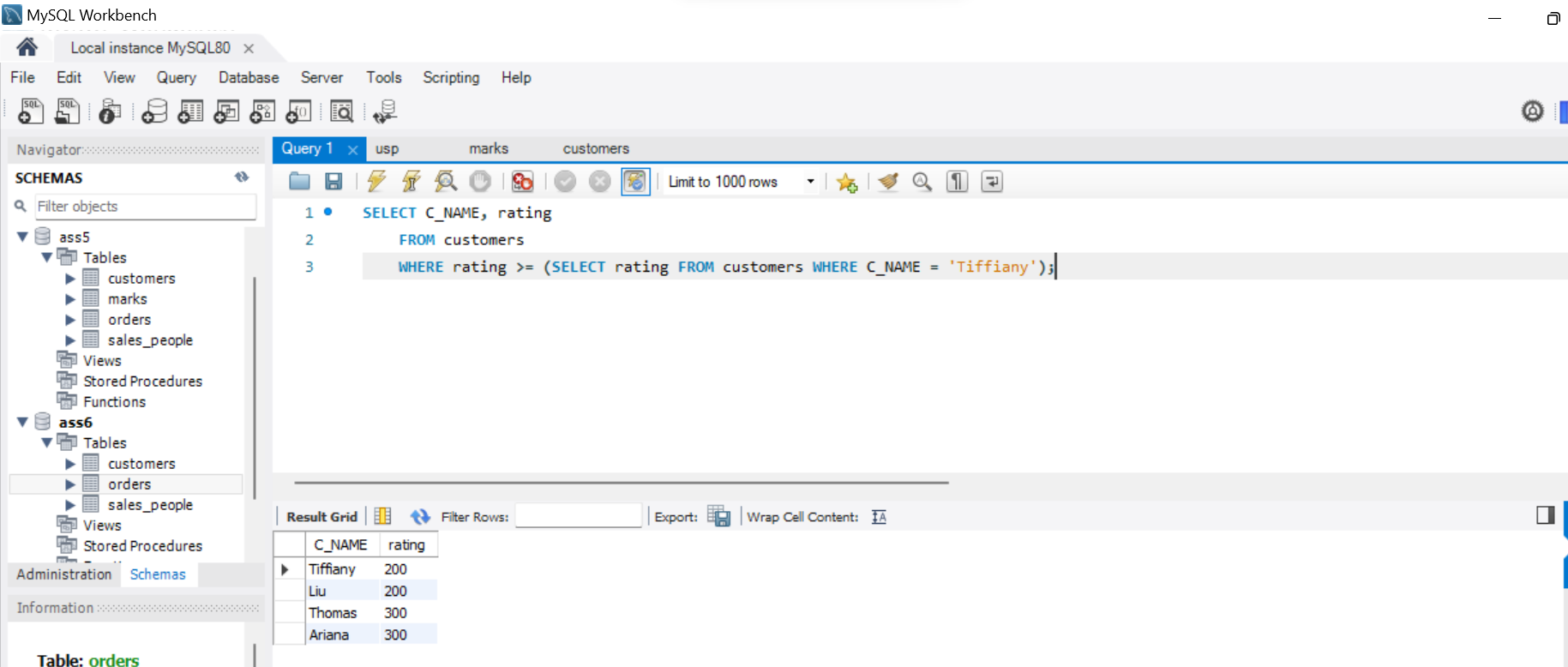
AND city <> 'Berlin';

F.

SELECT C\_NAME, rating

FROM customers

WHERE rating >= (SELECT rating FROM customers WHERE C\_NAME = 'Tiffiany');

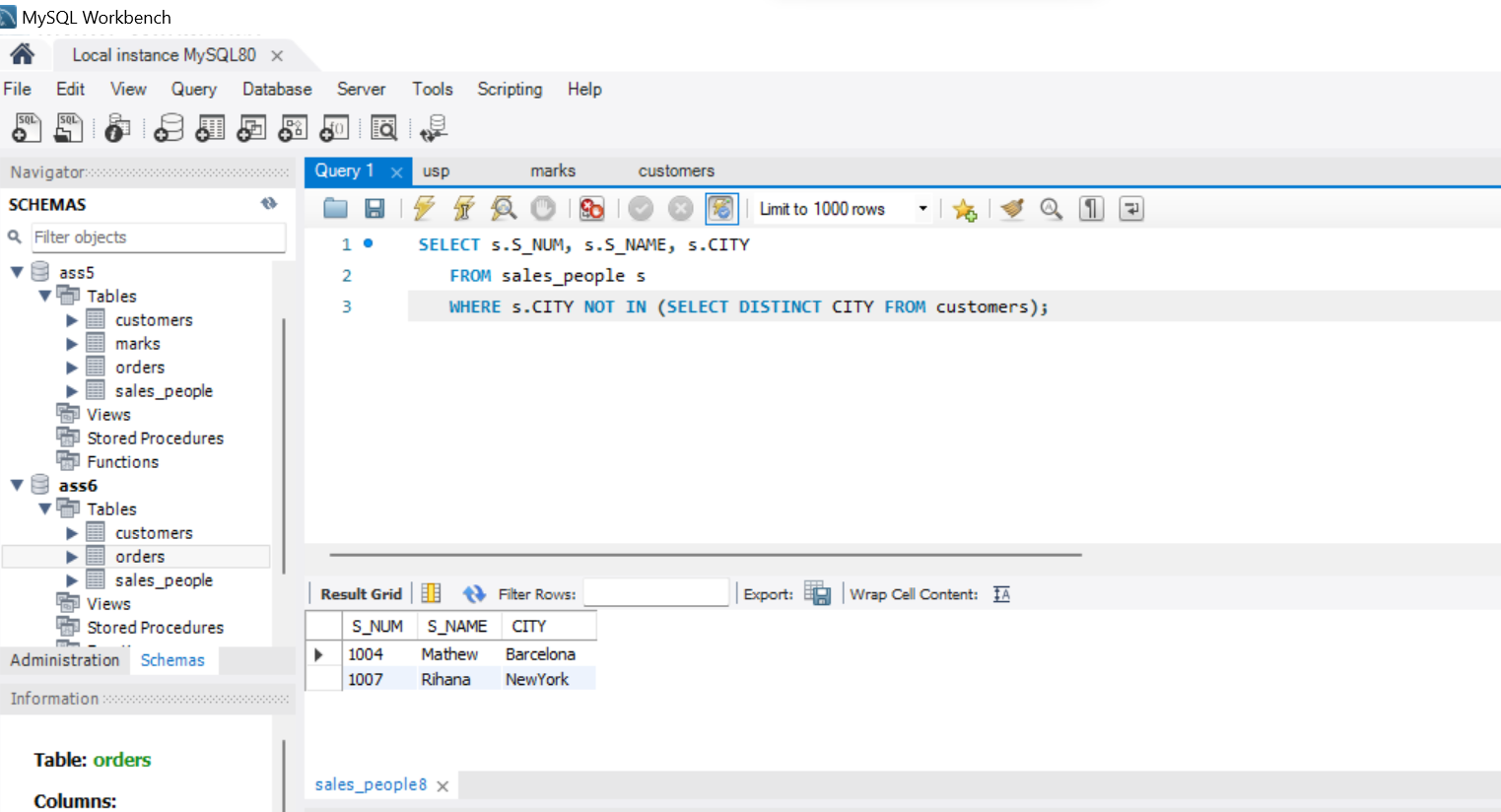


G.

SELECT s.S\_NUM, s.S\_NAME, s.CITY

FROM sales\_people s

WHERE s.CITY NOT IN (SELECT DISTINCT CITY FROM customers);



H.

SELECT O\_NUM, AMT, ORDER\_DATE, C\_NUM, S\_NUM

FROM orders

WHERE AMT > (

SELECT MAX(o2.AMT)

FROM orders o2

JOIN customers c ON o2.C\_NUM = c.C\_NUM

WHERE c.CITY = 'Rome'

);

