Q1-How many rows of data are stored for each table in the database? List the name of each table followed by the number of rows it has.

Ans-select \*

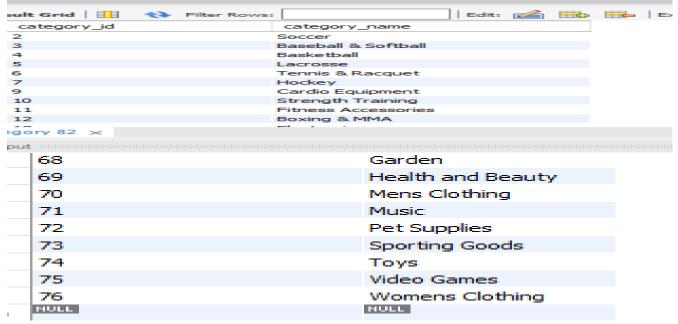
from category;

-- Ashwin

```
select *

from category;

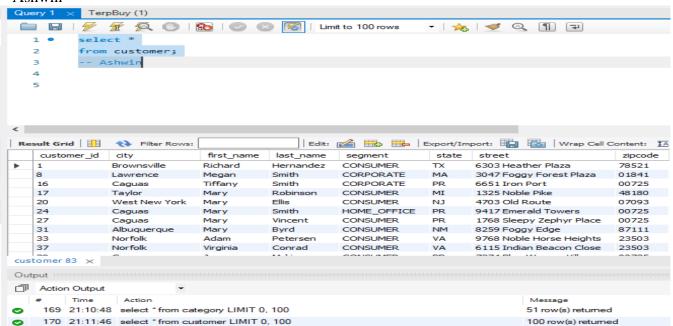
Ashwin
```



select \*

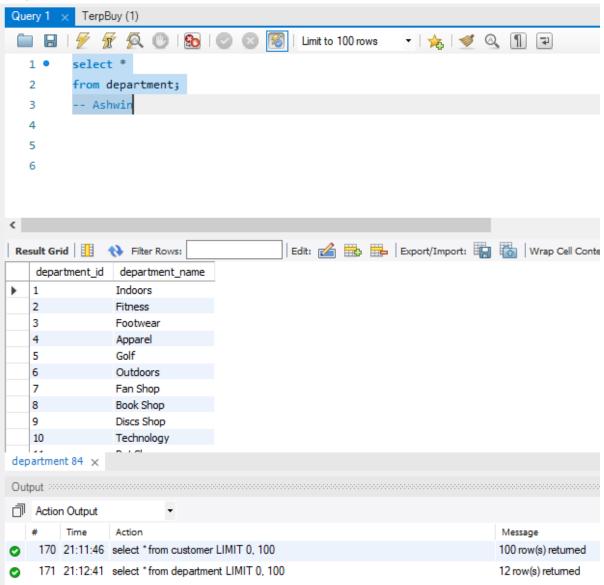
from customer;

-- Ashwin



## select \* from department;

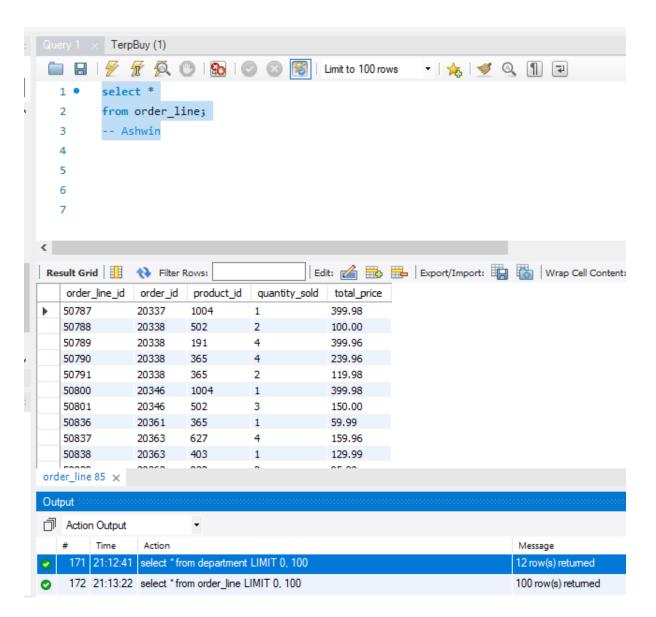
-- Ashwin



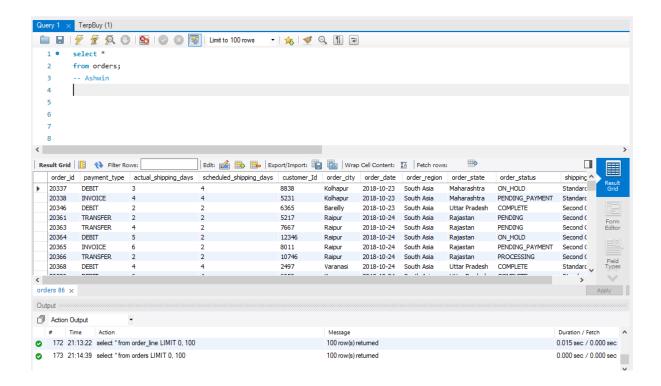
select \*

from order\_line;

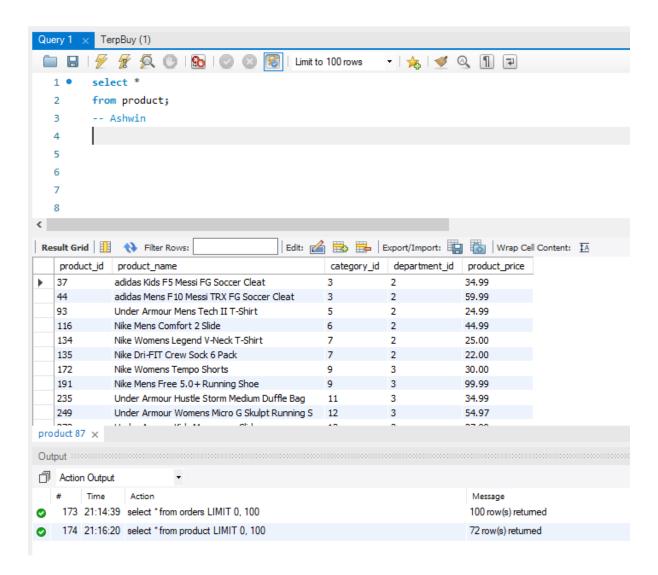
-- Ashwin



select \*
from orders;
-- Ashwin



select \*
from product;
-- Ashwin



select count(\*)

from product;

-- Ashwin

Above query can be applied to all to get the number of count in each table.

Q2.Which products are considered high-priced products? A high-priced product has a price exceeding \$100.00. List the names and prices of the high-priced products.

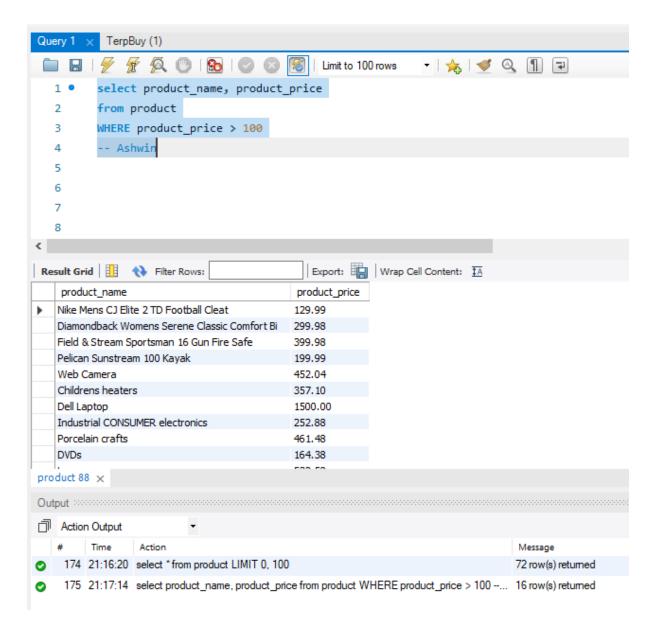
ANS--

select product\_name, product\_price

from product

WHERE product\_price > 100

-- Ashwin



Q3.List all orders placed by customers in the state of Florida. Note: The state abbreviation for Florida is 'FL'. Include the customers' first names, last names, city, and segment, along with the order ID and order date.

ANS—

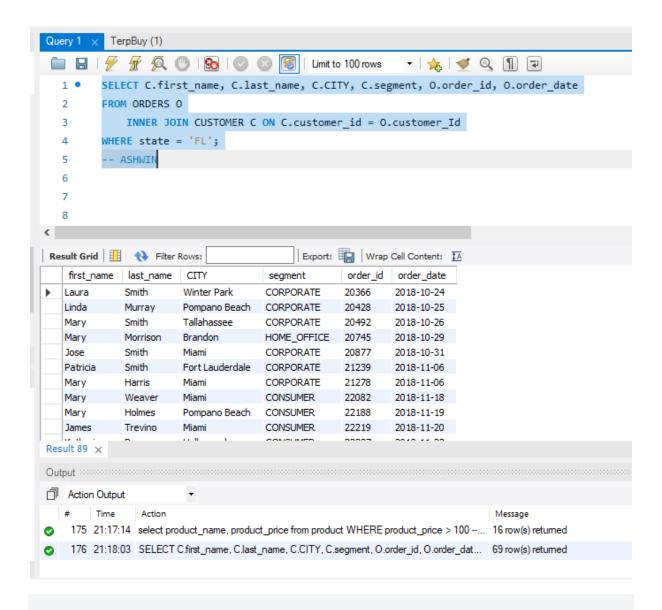
SELECT C.first\_name, C.last\_name, C.CITY, C.segment, O.order\_id, O.order\_date

FROM ORDERS O

INNER JOIN CUSTOMER C ON C.customer\_id = O.customer\_Id

WHERE state = 'FL';

-- ASHWIN



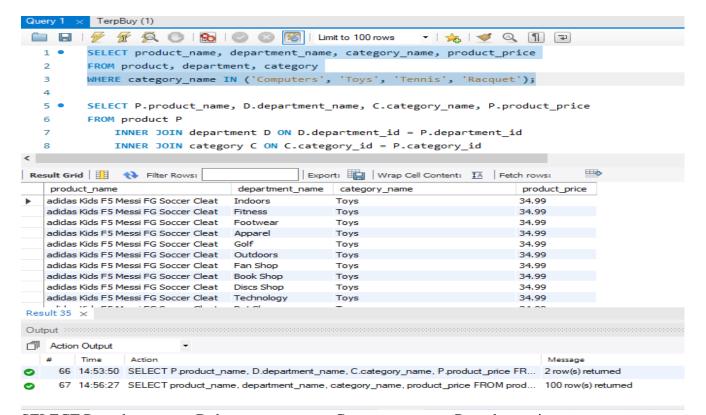
Q4 List all products that fall in one of the following categories: 'Computers', 'Toys',

'Tennis & Racquet'. Include the products' names, category, department, and price.

ANS-

SELECT product\_name, department\_name, category\_name, product\_price FROM product, department, category

WHERE category\_name IN ('Computers', 'Toys', 'Tennis', 'Racquet');

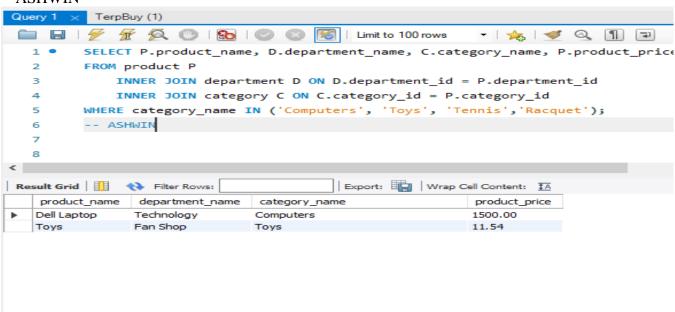


SELECT P.product\_name, D.department\_name, C.category\_name, P.product\_price FROM product P

INNER JOIN department D ON D.department\_id = P.department\_id INNER JOIN category C ON C.category\_id = P.category\_id

WHERE category\_name IN ('Computers', 'Toys', 'Tennis', 'Racquet');

-- ASHWIN



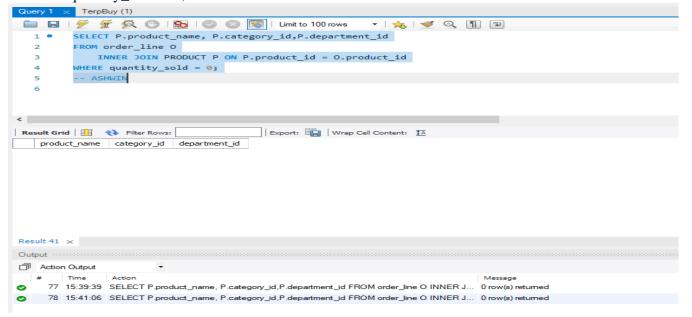
Q5--TerpBuy is considering reducing its product offerings. Which products have not yet been sold? Include the name, category, and department for each such product.

ANS-

SELECT P.product\_name, P.category\_id,P.department\_id FROM order\_line O

INNER JOIN PRODUCT P ON P.product\_id = O.product\_id

WHERE quantity\_sold = 0;



Q6-- List the names of all cities from where orders are shipped. Also, for such cities, find the number of orders for which shipping was delayed. Sort the list of cities in order from the highest to the least number of shipping orders.

ANS----

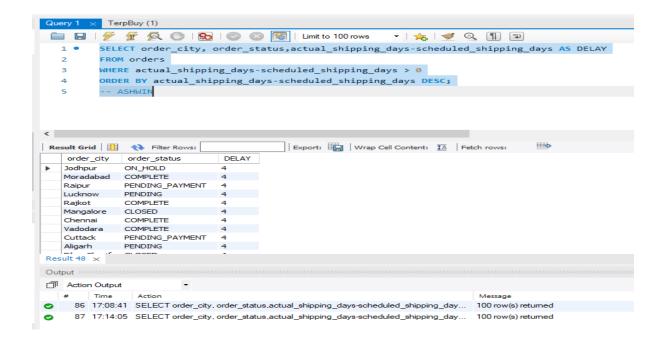
 $SELECT\ order\_city,\ order\_status, actual\_shipping\_days-scheduled\_shipping\_days\ AS\ DELAY$ 

FROM orders

WHERE actual\_shipping\_days-scheduled\_shipping\_days > 0

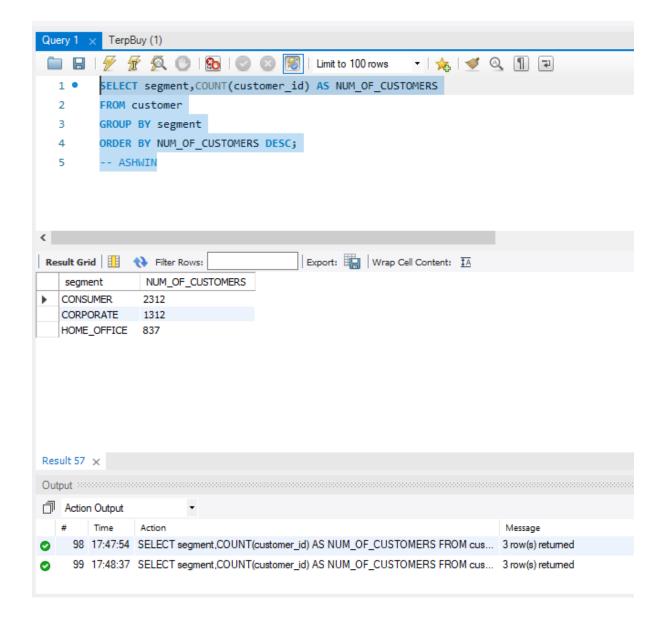
ORDER BY actual\_shipping\_days-scheduled\_shipping\_days DESC;

-- ASHWIN



Q7--How many customers are there in each segment? Show the most popular segment at the top of the result. Incorporate a column alias in the result.

ANS—
SELECT segment,COUNT(customer\_id) AS NUM\_OF\_CUSTOMERS
FROM customer
GROUP BY segment
ORDER BY NUM\_OF\_CUSTOMERS DESC;
-- ASHWIN



Q8--How many orders were placed in the first quarter of 2021? Note: A quarter consists of three months. Incorporate a column alias in the result.

ANS—

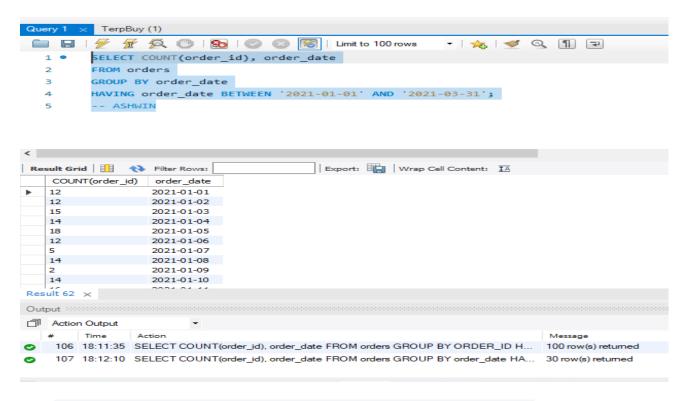
SELECT COUNT(order\_id), order\_date

FROM orders

GROUP BY order date

HAVING order\_date BETWEEN '2021-01-01' AND '2021-03-31';

-- ASHWIN



Q9-- List in alphabetical order all states supporting multiple customer segments.

Ans

SELECT order\_state, COUNT(customer\_Id)

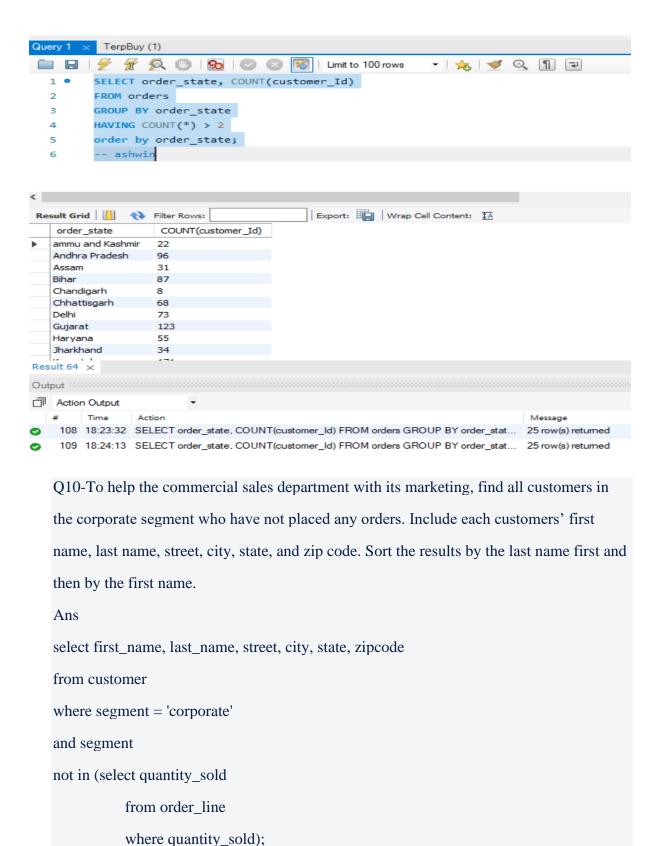
FROM orders

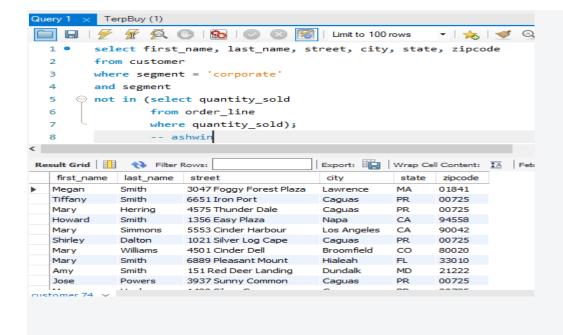
GROUP BY order\_state

HAVING COUNT(\*) > 2

order by order\_state;

-- ashwin





Q11--There has been a recall of the product Nike Mens Free 5.0+ Running Shoe.

TerpBuy would have to offer a discount coupon to all customers who purchased this product. Find all orders that included this product as a part of the purchase. For all such orders, list the customers' first names, last names, street, state, zip code, and order date. Each customer can be offered only one discount coupon. Hence, do not list the same customer more than once.

**ANS** 

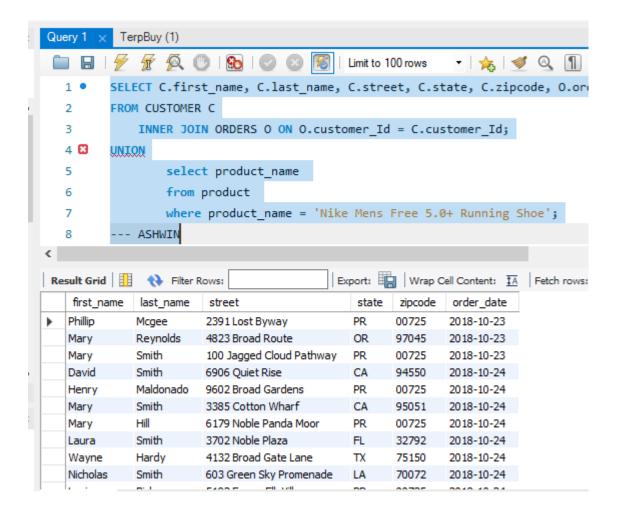
SELECT C.first\_name, C.last\_name, C.street, C.state, C.zipcode, O.order\_date FROM CUSTOMER C

INNER JOIN ORDERS O ON O.customer\_Id = C.customer\_Id; UNION

select product\_name from product

where product\_name = 'Nike Mens Free 5.0+ Running Shoe';

--- ASHWIN



Q12--Premium customers are those customers who have placed orders with order amounts greater than the average order amount. For each customer, find the first and last names, and the order amount for all orders that exceeded the average order amount.

SELECT first\_name,last\_name,total\_price FROM customer WHERE total\_price > (SELECT AVG(total\_price) FROM order\_line); -- Ashwin