1. How many Customers do we have in the data?
2. What was the city with the most profit for the company in 2015 and how much was it?
3. How many different cities do we have in the data?
4. Show the total spent by customers from low to high.
5. What is the most profitable City in the State of Tennessee?
6. What's the average annual profit for that city across all years in that city?
7. What is the distribution of customer types in the data?
8. What's the most profitable product category on average in Iowa across all years?
9. What is the most popular product in that category across all states in 2016?
10. Which customer got the most discount in the data? (in total amount)
11. How widely did monthly profits vary in 2018?
12. Which order was the highest in 2015?
13. What was the rank of each city in the East region in 2015?

1a. 795
1b. select count(*)
from customers
2a. nyc,14753
2b. select orders.shipping_city, SUM(order_details.order_profits) as profit,
substr(orders.order_date,-4,4) as year
from orders
join order_details
on orders.order_id = order_details.order_id
where substr(orders.order_date,-4,4) like '%2015%'
group by orders.shipping_city
order by profit DESC3a.531
3b. select COUNT(distinct orders.shipping_city)
from orders
4a.
4b. select SUM(order_details.order_sales) AS total_sum, customers.customer_name
from order_details
JOIN orders
on order_details.order_id = orders.order_id
join customers
on orders.customer_id = customers.customer_id
group by customers.customer_id
order by total_sum
5a. Lebanon has highest profits, franklin has highest profit ratio
5b. select orders.shipping_city, SUM(order_details.order_profits) as profits
from orders
join order_details
on orders.order_id = order_details.order_id
WHERE orders.shipping_state = 'Tennessee'
group by orders.shipping_city

order by profits DESC
6a. 16-6, 17-18, 18-59, overall 27.66
6b. select orders.shipping_city, AVG(order_details.order_profits) as profits,
substr(orders.order_date,-4,4) as year
from orders
join order_details
on orders.order_id = order_details.order_id
WHERE orders.shipping_city = 'Lebanon'
group by year
7a.410 consumer, 237 corporate, 148 home office
7b. select count(customer_segment), customer_segment
from customers
group by customer_segment
8a. highest profits is furniture, highest ratio is office supplies
8b. select AVG(order_details.order_profits), AVG(order_details.order_profit_ratio),
product.product_category, orders.shipping_state
from product
join order_details
on product.product_id = order_details.product_id
JOIN orders
on order_details.order_id = orders.order_id
WHERE orders.shipping_state = 'Iowa'
GROUP BY product.product_category
9a. gold push button managers chair indigo,
9b. select SUM(order_details.quantity) as tot_ord, COUNT(orders.order_id),
product.product_name
from product
join order_details
on product.product_id = order_details.product_id
JOIN orders
on order_details.order_id = orders.order_id
WHERE product.product_category = 'Furniture'
AND order_details.order_id like '%2016%'
GROUP BY product.product_name
order by tot_ord DESC
10a. sean miller, 687, 962.15
10b. select customers.customer_name, customers.customer_id,
SUM(order_details.order_discount) as tot_disc, SUM(order_details.order_sales) as tot_sale,
(SUM(order_details.order_sales)/(1-((SUM(order_details.order_discount)/100))))-
SUM(order_details.order_sales) as tot_diff
from customers
join orders
on customers.customer_id = orders.customer_id
join order_details
on orders.order_id = order_details.order_id
group by customers.customer_name

order by tot_diff DESC
11a. they vary widely, top month(3) profits as 14758, bottom (4) as 934
11b. select SUBSTR(orders.order_date,1,INSTR(orders.order_date,'/')-1) as month,
SUM(order_details.order_profits) as profits
from orders
join order_details
on orders.order_id = order_details.order_id
WHERE orders.order_date like '%2018%'
group by month
order by profits desc
12a. order_id CA-2015-145317, 22638
12b. select MAX(order_sales), order_id
from order_details
WHERE order_id like '%2015%'
13a.
13b. select RANK() OVER(order by order_details.quantity) as rank, orders.shipping_city,
orders.shipping_region, SUM(order_details.quantity) as tot_quan
from orders
join order_details
on orders.order_id = order_details.order_id
where orders.order_id like '%2015%'
AND orders.shipping_region like 'East'
group by orders.shipping_city
order by tot_quan DESC14a. select *
from customers
join orders
on customers.customer_id = orders.customer_id
JOIN order_details
on orders.order_id = order_details.order_id
JOIN product
on order_details.product_id = product.product_id