Wajahat Ali, Brenna Weaver, Rey Romo

ISTM 615

Documentation Log

**1. How many customers have been referred to Wildcat Pizza by other customers?**

1. SQL

SELECT count(CUSTOMER\_ID) as ‘# of Customers Referred’

FROM CUSTOMER

WHERE CUSTOMER\_REFERRED\_BY is not null;

b. 

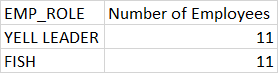
**2. How many employees does Wildcat Pizza employ in each role?**

1. SQL

SELECT count(EMP\_ID) as ‘Number of Employees’, EMP\_ROLE

FROM EMPLOYEE

GROUP BY EMP\_ROLE;

b. 

**3. How many orders have been placed that total less than $10?**

1. SQL

SELECT count(ORDER\_ID) as ‘Num of Orders Under $10’

FROM ORDERS

WHERE ORDER\_TOTAL <10;

b. 

**4. List the names of customers whose average payment amount is at least 1.5 times the overall average payment.**

1. SQL

SELECT CUSTOMER\_FIRST\_NAME, CUSTOMER\_LAST\_NAME, AVG(AMOUNT\_RECEIVED) AS 'AVERAGE PAYMENT'

FROM CUSTOMER C JOIN PAYMENT P

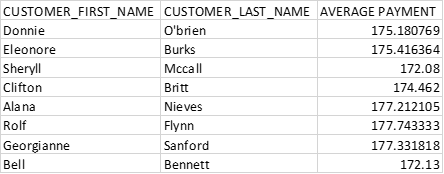
ON C.CUSTOMER\_ID=P.CUSTOMER\_ID

GROUP BY CUSTOMER\_FIRST\_NAME, CUSTOMER\_LAST\_NAME

HAVING AVG(AMOUNT\_RECEIVED)>=

(SELECT (AVG(AMOUNT\_RECEIVED)\*1.5)

FROM PAYMENT)

b. 

**5. What is the most money ever paid for a single order at Wildcat Pizza?**

1. SQL

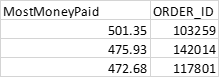
SELECT max(AMOUNT\_RECEIVED) as ‘MostMoneyPaid’, ORDER\_ID

FROM PAYMENT

GROUP BY ORDER\_ID

Order BY 1 Desc

Limit 3;

b. 

**6. How many customers have been referred to Wildcat Pizza by customers whose last names end in ‘z’?**

1. SQL

SELECT count(c.Customer\_ID) as ‘Num of Customers Referred’

From Customer R JOIN Customer C

On C.customer\_referred\_by = R.Customer\_ID

AND R.Customer\_Last\_Name LIKE "%Z";

b. 

**7. Which order (or orders) has had the greatest number of different items on it?**

1. SQL

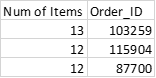
SELECT COUNT(distinct Product\_ID) as 'Num of Items', Order\_ID

FROM ORDERLINE

GROUP BY Order\_ID

Order By 1 desc

LIMIT 3;

b. 

**8. What is the name of the customer who has referred the greatest number of customers?**

1. SQL

SELECT COUNT(c.customer\_referred\_by) as '# of Referrals', R.customer\_last\_Name as ‘LastName’, r.Customer\_first\_name as ‘FirstName’

From Customer R JOIN Customer C

On C.customer\_referred\_by = R.Customer\_ID

GROUP BY R. Customer\_Last\_Name, R.Customer\_First\_Name

ORDER BY COUNT(C.Customer\_referred\_by) DESC

LIMIT 1;

b. 

**9. What are the toppings on the pizza that has generated the most revenue?**

1. SQL

SELECT P.Product\_ID as 'Product ID', PRODUCT\_TOPPINGS as 'Product Topping', SUM(LINE\_COST) as 'Total Revenue'

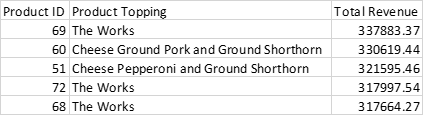
FROM PRODUCT P RIGHT JOIN ORDERLINE OL

ON P.Product\_ID = OL.PRODUCT\_ID

GROUP BY P.PRODUCT\_ID, Product\_TOPPINGS

ORDER BY SUM(LINE\_COST) DESC

LIMIT 5;

b. 

**10. How many pizzas have we sold to customers living on streets that begin with ‘W’?**

1. SQL

SELECT SUM(quantity) AS "# of Pizzas Sold"

FROM orderline ol JOIN orders o

ON ol.order\_id = o.order\_id

WHERE customer\_id IN

(SELECT customer\_id

FROM customer

WHERE customer\_street\_name like "W%");

b. 

**11. What is the name of our most valued customer (i.e., the one who has spent the most money)?**

1. SQL

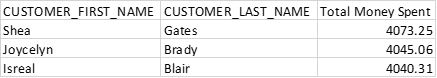
SELECT CUSTOMER\_FIRST\_NAME, CUSTOMER\_LAST\_NAME, SUM(ORDER\_TOTAL) AS ‘Total Money Spent’

FROM CUSTOMER C JOIN ORDERS O

ON C.CUSTOMER\_ID=O.CUSTOMER\_ID

GROUP BY CUSTOMER\_FIRST\_NAME, CUSTOMER\_LAST\_NAME

LIMIT 3;

b. 

**12. What is the name of the Fish that has taken payments for the fewest orders?**

1. SQL

SELECT E.EMP\_ID AS 'EMPLOYEE ID', EMP\_FIRST\_NAME AS 'EMPLOYEE FIRST NAME', EMP\_LAST\_NAME AS 'EMPLOYEE LAST NAME', COUNT(DISTINCT ORDER\_ID) AS "# OF PAYMENTS", EMP\_ROLE AS 'EMPLOYEE ROLE'

FROM PAYMENT P JOIN EMPLOYEE E

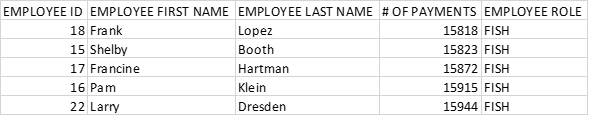
ON P.EMP\_ID=E.EMP\_ID

WHERE EMP\_ROLE='FISH'

GROUP BY E.EMP\_ID, EMP\_FIRST\_NAME, EMP\_LAST\_NAME, EMP\_ROLE

ORDER BY COUNT(DISTINCT ORDER\_ID) ASC

LIMIT 5;

b. 

**13. What are the toppings on the most frequently ordered pizza?**

1. SQL

SELECT P.PRODUCT\_ID, PRODUCT\_TOPPINGS, count(orderline\_ID) as 'Number of Pizzas'

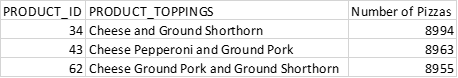
FROM PRODUCT P JOIN ORDERLINE OL

ON P.PRODUCT\_ID = OL.PRODUCT\_ID

GROUP BY P.PRODUCT\_ID, PRODUCT\_TOPPINGS

ORDER BY count(orderline\_ID) DESC

LIMIT 3;

b. 

**14. What is the name of the Yell Leader who has fulfilled the most orders?**

1. SQL

SELECT E.EMP\_ID AS 'EMPLOYEE ID', EMP\_FIRST\_NAME AS 'EMPLOYEE FIRST NAME', EMP\_LAST\_NAME AS 'EMPLOYEE LAST NAME', COUNT(ORDER\_ID) AS 'ORDER FULFILLED', EMP\_ROLE AS 'EMPLOYEE ROLE'

FROM ORDERS O JOIN EMPLOYEE E

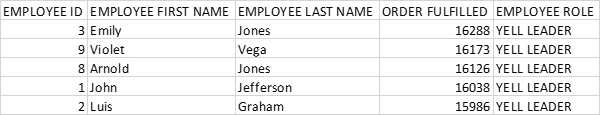
ON O.EMP\_ID=E.EMP\_ID

WHERE EMP\_ROLE = "YELL LEADER"

GROUP BY E.EMP\_ID, EMP\_FIRST\_NAME, EMP\_LAST\_NAME, EMP\_ROLE

ORDER BY COUNT(ORDER\_ID) DESC

LIMIT 5;

b. 

**15. What is the name of the Yell Leader who has cooked the greatest number of pizzas?**

1. SQL

SELECT EMP\_FIRST\_NAME, EMP\_LAST\_NAME, EMP\_ROLE, Sum(QUANTITY) as 'Number of Pizzas'

FROM EMPLOYEE E JOIN ORDERS O

ON E.EMP\_ID=O.EMP\_ID

JOIN ORDERLINE OL

ON O.ORDER\_ID=OL.ORDER\_ID

AND EMP\_ROLE = "Yell Leader"

GROUP BY EMP\_FIRST\_NAME, EMP\_LAST\_NAME, EMP\_ROLE

ORDER BY Sum(QUANTITY) DESC

LIMIT 3;

b. 