

SQL QUERY AND RESPONSE (5 points each)

For the following section please copy and paste the SQL command after each question in addition include the query result. After completion submit your responses to blackboard. Remember if you cannot answer the question still provide what you attempted to run for partial credit.

Note: Utilize the TAL DISTRIBUTORS Database.

1. List the customer number, customer name, the average balance & the maximum credit limit for each customer. Group your results by customer number in ascending order. Make sure to name each aggregated field accordingly.

```
SELECT CustomerNum, CustomerName, Balance AS AverageBalance, CreditLimit AS MaxCreditLimit
FROM Customer
ORDER BY CustomerNum ASC;
```

Final_Q1			
CustomerNum	CustomerName	AverageBalance	MaxCreditLimit
126	Toys Galore	\$1,210.25	\$7,500.00
260	Brookings Direct	\$575.00	\$10,000.00
334	The Everything Shop	\$2,345.75	\$7,500.00
386	Johnson's Department Store	\$879.25	\$7,500.00
440	Grove Historical Museum Store	\$345.00	\$5,000.00
502	Cards and More	\$5,025.75	\$5,000.00
586	Almondton General Store	\$3,456.75	\$15,000.00
665	Cricket Gift Shop	\$678.90	\$7,500.00
713	Cress Store	\$4,234.60	\$10,000.00
796	Unique Gifts	\$124.75	\$7,500.00
824	Kline's	\$2,475.99	\$15,000.00
893	All Season Gifts	\$935.75	\$7,500.00

2. List the number, name, and address of every rep with an address that contains "St"

```
SELECT RepNum, FirstName, LastName, Rep.Street, Rep.City, Rep.State, Rep.PostalCode
FROM Rep
WHERE Rep.Street LIKE '*St*';
```

Final_Q2						
RepNum	FirstName	LastName	Street	City	State	PostalCode
30	Megan	Gradey	632 Liatris St.	Fullton	CA	90085
60	Janet	Sefton	267 Oakley St.	Congaree	CA	90097

3. List the customer number and the order number for all orders placed on 10/12/2015.

```
SELECT CustomerNum, OrderNum, OrderDate
FROM Orders
WHERE OrderDate = #10/12/2015#;
```

Final_Q3		
CustomerNum	OrderNum	OrderDate
126	51608	10/12/2015
334	51610	10/12/2015

4. For each rep, list the rep number, the number of customers assigned to the rep, and the average balance of the rep's customers.

```
SELECT Rep.RepNum, COUNT(Customer.RepNum) AS CustomerCount, AVG(Balance) AS AverageBalance
FROM Rep
LEFT JOIN Customer ON Rep.RepNum=Customer.RepNum
GROUP BY Rep.RepNum;
```

Final_Q4		
RepNum	CustomerCount	AverageBalance
15	4	\$2,851.59
30	4	\$1,152.29
45	4	\$1,568.06
60	0	

5. List the item number, on hand value, and the price for all items between \$50 and \$100.

```
SELECT ItemNum, Price, OnHand, FORMAT(OnHand*Price, "Currency") AS OnHandValue
FROM Item
WHERE Price BETWEEN 50 AND 100
ORDER BY Price ASC;
```

Final_Q5			
ItemNum	Price	OnHand	OnHandValue
DW23	\$50.00	40	\$2,000.00
KA12	\$75.00	56	\$4,200.00
CD33	\$89.49	36	\$3,221.64

6. List the customer number, customer name, rep's name, and the rep number for all customers with a commission greater than or equal to \$25,000 or a commission rate of 0.06.

```
SELECT Customer.CustomerNum, Customer.CustomerName, Rep.RepNum, Rep.LastName AS
RepLastName, Rep.FirstName AS RepFirstName, Rep.Commission, Rep.Rate
FROM Customer INNER JOIN Rep ON Customer.RepNum=Rep.RepNum
WHERE Rep.Commission >= 25000
OR Rep.Rate = 0.06
ORDER BY Rep.Commission;
```

Final_Q6						
CustomerNum	CustomerName	RepNum	RepLastName	RepFirstName	Commission	Rate
893	All Season Gifts	15	Campos	Rafael	\$23,457.50	0.06
713	Cress Store	15	Campos	Rafael	\$23,457.50	0.06
502	Cards and More	15	Campos	Rafael	\$23,457.50	0.06
126	Toys Galore	15	Campos	Rafael	\$23,457.50	0.06
796	Unique Gifts	45	Tian	Hui	\$27,789.25	0.06
586	Almondton General Store	45	Tian	Hui	\$27,789.25	0.06
440	Grove Historical Museum Store	45	Tian	Hui	\$27,789.25	0.06
334	The Everything Shop	45	Tian	Hui	\$27,789.25	0.06
824	Kline's	30	Gradey	Megan	\$41,317.00	0.08
665	Cricket Gift Shop	30	Gradey	Megan	\$41,317.00	0.08
386	Johnson's Department Store	30	Gradey	Megan	\$41,317.00	0.08
260	Brookings Direct	30	Gradey	Megan	\$41,317.00	0.08

7. List the item number, description, order date, and the customer number for number of orders greater than 5.

```
SELECT OrderLine.ItemNum, Item.Description, OrderLine.NumOrdered, Orders.OrderDate,
Orders.CustomerNum
FROM OrderLine, Item, Orders
WHERE OrderLine.ItemNum=Item.ItemNum
AND OrderLine.OrderNum=Orders.OrderNum
AND OrderLine.NumOrdered>5
ORDER BY OrderLine.NumOrdered ASC;
```

Final_Q7				
ItemNum	Description	NumOrdered	OrderDate	CustomerNum
MT03	Zauberkasten Brain Teaser	8	10/16/2015	796
KD34	Pentominoes Brain Teaser	10	10/15/2015	586
TR40	Tic Tac Toe	10	10/12/2015	334
FH24	Puzzle Gift Set	12	10/15/2015	586
KL78	Pick Up Sticks	25	10/12/2015	334

8. List the order number for each order and the item number and description for an item located in storehouse 3.

```
SELECT Item.Storehouse, OrderLine.ItemNum, OrderLine.OrderNum
FROM Item, OrderLine
WHERE Item.ItemNum=OrderLine.ItemNum
AND Item.Storehouse='3';
```

Final_Q8		
Storehouse	ItemNum	OrderNum
3	DL51	51613
3	FD11	51614
3	FD11	51619
3	NL89	51617

Bonus (+3 points): List the customer number, customer name, item number, number ordered, description, and order number for all items with an onhand value greater than or equal to 10.

```
SELECT Orders.CustomerNum, Customer.CustomerName, Item.OnHand, OrderLine.ItemNum, Item.Description,
OrderLine.OrderNum
FROM Item, OrderLine, Orders, Customer
WHERE Item.ItemNum=OrderLine.ItemNum
AND OrderLine.OrderNum=Orders.OrderNum
AND Orders.CustomerNum=Customer.CustomerNum
AND Item.OnHand>=10
ORDER BY Item.OnHand ASC;
```

Final_Bonus					
CustomerNum	CustomerName	OnHand	ItemNum	Description	OrderNum
386	Johnson's Department Store	12	DL51	Classic Railway Set	51613
586	Almondton General Store	24	DR67	Giant Star Brain Teaser	51623
586	Almondton General Store	30	TW35	Fire Engine	51617
586	Almondton General Store	32	NL89	Wood Block Set (62 piece)	51617
126	Toys Galore	36	CD33	Wood Block Set (48 piece)	51608
796	Unique Gifts	45	MT03	Zauberkasten Brain Teaser	51625
586	Almondton General Store	60	KD34	Pentominoes Brain Teaser	51623
586	Almondton General Store	65	FH24	Puzzle Gift Set	51623
334	The Everything Shop	75	TR40	Tic Tac Toe	51610
334	The Everything Shop	110	KL78	Pick Up Sticks	51610