

Tyler Valentine
Homework 3 – SQL
CSCI-3287
February 23rd, 2020




/* QUESTION 1 */

```
select city from customers
      where country = 'Australia'
      order by city ASC;
```

Result Grid	
#	city
1	Chatswood
2	Glen Waverly
3	Melbourne
4	North Sydney
5	South Brisbane

/* QUESTION 2 */




```
select employeeNumber, lastName, firstName, extension from employees
      where officeCode = (select officeCode from offices
                          where city = 'Sydney');
```







Result Grid   Filter Rows:  Edit:

#	employeeNumber	lastName	firstName	extension
1	1088	Patterson	William	x4871
2	1611	Fixter	Andy	x101
3	1612	Marsh	Peter	x102
4	1619	King	Tom	x103
*	NULL	NULL	NULL	NULL

/* QUESTION 3 */

```
select productCode, productName, productVendor, quantityInStock, productLine from products
      where quantityInStock > 4000 and quantityInStock < 5000;
```

Result Grid   Filter Rows: 

Edit:    Export/Import:   Wrap Cell Content: 

#	productCode	productName	productVendor	quantityInStock	productLine
1	S18_2238	1998 Chrysler Plymouth Prowler	Gearbox Collectibles	4724	Classic Cars
2	S18_2625	1936 Harley Davidson El Knuckleh...	Welly Diecast Productions	4357	Motorcycles
3	S18_2949	1913 Ford Model T Speedster	Carousel DieCast Legends	4189	Vintage Cars
4	S18_3029	1999 Yamaha Speed Boat	Min Lin Diecast	4259	Ships
5	S24_1444	1970 Dodge Coronet	Highway 66 Mini Classics	4074	Classic Cars
6	S24_3191	1969 Chevrolet Camaro Z28	Exoto Designs	4695	Classic Cars
7	S24_4258	1936 Chrysler Airflow	Second Gear Diecast	4710	Vintage Cars
8	S72_1253	Boeing X-32A JSF	Motor City Art Classics	4857	Planes

/* QUESTION 4 */

```
select productCode, productName, productVendor, buyPrice, MSRP from products
where MSRP = (select MSRP from products
order by MSRP DESC
limit 1);
```

#	productCode	productName	productVendor	buyPrice	MSRP
1	S10_1949	1952 Alpine Renault 1300	Classic Metal Creations	98.58	214.30
*	NULL	NULL	NULL	NULL	NULL

/* QUESTION 5 */

```
select productName, MSRP, buyPrice, MSRP-buyPrice as 'margin' from products
order by margin ASC
limit 1;
```

#	productName	MSRP	buyPrice	margin
1	1939 Chevrolet Deluxe Coupe	33.19	22.57	10.62

/* QUESTION 6 */



```
select * from
(select country, count(customerNumber) as 'Customers' from customers
group by country
order by Customers DESC)
as Tyler
where Customers > 5;
```

#	country	Customers
1	USA	36
2	Germany	13
3	France	12
4	Spain	7

/* QUESTION 7 */



```
select products.productCode, productName, max(quantityOrdered) as 'OrderCount'
from products, orderdetails
where products.productCode = orderdetails.productCode
group by productCode, productName
order by OrderCount DESC
```

limit 1;

Result Grid 				Filter Rows: 
#	productCode	productName	Order	
1	S12_4675	1969 Dodge Charger	97	



/* QUESTION 8 */

```
select concat(m.firstName, ' ', m.lastName) as ManagerName, concat(e.firstName, ' ', e.lastName) as  
EmployeeName from employees e  
join employees m on e.reportsTo = m.employeeNumber  
order by ManagerName;
```

Result Grid 				Filter Rows: 
#	ManagerName	EmployeeName		
1	Anthony Bow	Leslie Jennings		
2	Anthony Bow	Leslie Thompson		
3	Anthony Bow	Julie Firrelli		
4	Anthony Bow	Steve Patterson		
5	Anthony Bow	Foon Yue Tseng		
6	Anthony Bow	George Vanauf		
7	Diane Murphy	Jeff Firrelli		
8	Diane Murphy	Mary Patterson		
9	Gerard Bondur	Martin Gerard		
10	Gerard Bondur	Barry Jones		
11	Gerard Bondur	Larry Bott		
12	Gerard Bondur	Pamela Castillo		
13	Gerard Bondur	Gerard Hernan...		
14	Gerard Bondur	Loui Bondur		
15	Mami Nishi	Yoshimi Kato		
16	Mary Patterson	Anthony Bow		
17	Mary Patterson	Gerard Bondur		
18	Mary Patterson	Mami Nishi		
19	Mary Patterson	William Patterson		
20	William Patte...	Andy Fixter		
21	William Patte...	Peter Marsh		
22	William Patte...	Tom King		



/* QUESTION 9 */

```
select employeeNumber, firstName, lastName from employees
where reportsTo is null;
```

Result Grid 			
Filter Rows: 			
#	employeeNumber	firstName	lastName
1	1002	Diane	Murphy
*	NULL	NULL	NULL

/* QUESTION 10 */

```
select productName from products
where productLine = 'Classic Cars' and productName > '1959' and productName < '1970';
```

Result Grid 	
Filter Rows: 	
#	productName
1	1962 LanciaA Delta 16V
2	1968 Ford Mustang
3	1969 Corvair Monza
4	1968 Dodge Charger
5	1969 Ford Falcon
6	1969 Dodge Charger
7	1965 Aston Martin DB5
8	1969 Dodge Super Bee
9	1966 Shelby Cobra 427 S/C
10	1969 Chevrolet Camaro Z28
11	1961 Chevrolet Impala

/* QUESTION 11 */



```
select month(orderDate) as Month, year(orderDate) as Year, count(orderNumber) as Orders from
orders
```

```
    group by Month, Year
    Order by Orders DESC
    limit 2;
```

/* QUESTION 12 */



```
select firstName, lastname from employees
where employeeNumber not in (
    select salesRepEmployeeNumber from customers
    where salesRepEmployeeNumber is not null)
```

and jobTitle = 'Sales Rep';

Result Grid   Filter		
#	firstName	lastName
1	Tom	King
2	Yoshimi	Kato


/* QUESTION 13 */

```
select customerName from customers
where customerNumber not in (
    select customerNumber from orders)
and country = 'Switzerland';
```

Result Grid   Filter Rows	
#	customerName
1	BG&E Collectables
2	Precious Collectables




/* QUESTION 15 */

```
DROP TABLE IF EXISTS `LowCustomers`;
CREATE TABLE `LowCustomers` (
  `customerNumber` INT(11) NOT NULL,
  `contactDate` DATE NOT NULL,
  `orderTotal` DECIMAL(9,2),
  CONSTRAINT LowCustomer_PK PRIMARY KEY (`customerNumber`));
```

 4 12:29:08 CREATE TABLE `LowCustomers` (`customerNumber` INT... 0 row(s) affected, 1 warning(s): 1681 Integer display width is deprecated and will be removed in a future release. 0.835 sec

/* QUESTION 16 */

```
select * from (
select customerNumber, SUM(Tyler) as TotalOrderValue from (
select orders.customerNumber, orderdetails.orderNumber, SUM(quantityOrdered*priceEach) as Tyler
from orderdetails
left join orders on orderdetails.orderNumber = orders.orderNumber
group by orders.customerNumber, orderdetails.orderNumber) as newTable
group by customerNumber ) as newerTable
where TotalOrderValue < 50000
Group by customerNumber
order by customerNumber ASC;
```

Result Grid   Filter Rows: 			
#	customerNumber	TotalOrderValue	
1	219	7918.60	
2	198	21554.26	
3	103	22314.36	
4	473	25358.32	
5	381	29217.18	
6	456	29230.43	
7	489	29586.15	
8	415	31310.09	
9	173	32198.69	
10	347	41506.19	
11	487	42570.37	
12	475	43748.72	
13	211	45480.79	
14	344	46751.14	
15	189	49898.27	
16	447	49967.78	




insert into `LowCustomers`(`customerNumber`,`contactDate`,`orderTotal`) values

(103,'2020-2-21',22314.36),
 (173,'2020-2-21',32198.69),
 (189,'2020-2-21',49898.27),
 (198,'2020-2-21',21554.26),
 (211,'2020-2-21',45480.79),
 (219,'2020-2-21',7918.60),
 (344,'2020-2-21',46751.14),
 (347,'2020-2-21',41506.19),
 (381,'2020-2-21',29217.18),
 (415,'2020-2-21',31310.09),
 (447,'2020-2-21',49967.78),
 (456,'2020-2-21',29230.43),
 (473,'2020-2-21',25358.32),
 (475,'2020-2-21',43748.72),
 (487,'2020-2-21',42570.37),
 (489,'2020-2-21',29586.15);

59 14:25:00 insert into `LowCustomers`(`customerNumber`,`contactDate`,`orderTotal`) values 16 row(s) affected
 Records: 16 Duplicates: 0 Warnings: 0


/* QUESTION 17 */

```
select * from LowCustomers
order by orderTotal DESC;
```

Result Grid   Filter Rows: 				
#	customerNumber	contactDate	orderTotal	
1	447	2020-02-21	49967.78	
2	189	2020-02-21	49898.27	
3	344	2020-02-21	46751.14	
4	211	2020-02-21	45480.79	
5	475	2020-02-21	43748.72	
6	487	2020-02-21	42570.37	
7	347	2020-02-21	41506.19	
8	173	2020-02-21	32198.69	
9	415	2020-02-21	31310.09	
10	489	2020-02-21	29586.15	
11	456	2020-02-21	29230.43	
12	381	2020-02-21	29217.18	
13	473	2020-02-21	25358.32	
14	103	2020-02-21	22314.36	
15	198	2020-02-21	21554.26	
16	219	2020-02-21	7918.60	

/* QUESTION 18 */

```
ALTER TABLE LowCustomers
ADD OrderCount Int;
```

	62	14:38:28	ALTER TABLE LowCustomers ADD OrderCount Int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
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/* QUESTION 19 */


```
UPDATE LowCustomers
SET OrderCount = FLOOR(rand()*10000)%19
WHERE OrderCount IS NULL;
```


	76	15:14:49	UPDATE LowCustomers SET OrderCount = FLOOR(rand()*10000)%19 WHERE OrderCount IS NULL	16 row(s) affected Rows matched: 16 Changed: 16 Warnings: 0
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/* QUESTION 20 */

```
select * from LowCustomers  
order by OrderCount DESC;
```

Result Grid 

 Filter Rows:

Edit: 

#	customerNumber	contactDate	orderTotal	OrderCount	
1	103	2020-02-21	22314.36	18	
2	447	2020-02-21	49967.78	18	
3	173	2020-02-21	32198.69	15	
4	475	2020-02-21	43748.72	13	
5	487	2020-02-21	42570.37	9	
6	381	2020-02-21	29217.18	6	
7	219	2020-02-21	7918.60	5	
8	347	2020-02-21	41506.19	5	
9	189	2020-02-21	49898.27	4	
10	344	2020-02-21	46751.14	3	
11	489	2020-02-21	29586.15	3	
12	198	2020-02-21	21554.26	2	
13	211	2020-02-21	45480.79	2	
14	415	2020-02-21	31310.09	2	
15	473	2020-02-21	25358.32	2	
16	456	2020-02-21	29230.43	1	

/* QUESTION 21 */

```
drop table LowCustomers;
```

	80	15:20:50	drop table LowCustomers	0 row(s) affected
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