Ross Panning Homework 03 CSCI 3287

Question 1:

select distinct city
from customers
where country = 'Spain'
order by city ASC;



Question 2:

select employeeNumber, lastName, firstName from employees where officeCode in (

	employeeNumber	lastName	firstName
١	1102	Bondur	Gerard
	1337	Bondur	Loui
	1370	Hernandez	Gerard
	1401	Castillo	Pamela
	1702	Gerard	Martin
	NULL	NULL	NULL

Question 3:

 $select\ product Code,\ product Name,\ product Scale,\ product Vendor,\ buy Price$ $from\ products$

where productLine = "Motorcycles" and (50 < buyPrice and buyPrice < 80);

	productCode	productName	productScale	productVendor	buyPrice
•	S10_2016	1996 Moto Guzzi 1100i	1:10	Highway 66 Mini Classics	68.99
	S12_2823	2002 Suzuki XREO	1:12	Unimax Art Galleries	66.27
	S24_1578	1997 BMW R 1100 S	1:24	Autoart Studio Design	60.86
	S32_1374	1997 BMW F650 ST	1:32	Exoto Designs	66.92
	S32_4485	1974 Ducati 350 Mk3 Desmo	1:32	Second Gear Diecast	56.13
	NULL	NULL	NULL	NULL	HULL

Question 4:

select productCode, productName, productLine, quantityInStock, buyPrice
 from products
 where productLine = 'Vintage Cars' and productVendor = 'Exoto Designs'
 order by buyPrice ASC
 LIMIT 1;

	productCode	productName	productLine	quantityInStock	buyPrice
•	S18 4409	1932 Alfa Romeo 8C2300 Spider Sport	Vintage Cars	6553	43.26

Question 5:

select O.productName, O.productVendor, E.quantityOrdered,
 E.quantityOrdered * E.priceEach as totalcost
 from products O, orderdetails E
 where O.productCode = E.productCode
 order by totalcost DESC
 LIMIT 5;

	productName	productVendor	quantityOrdered	totalcost
Þ	2003 Harley-Davidson Eagle Drag Bike	Red Start Diecast	66	11503.14
	1969 Dodge Charger	Welly Diecast Productions	97	11170.52
	1917 Grand Touring Sedan	Welly Diecast Productions	76	10723.60
	1968 Ford Mustang	Autoart Studio Design	64	10460.16
	1952 Alpine Renault 1300	Classic Metal Creations	48	10286.40

Question6:

select customerNumber, customerName, phone, country, state, salesRepEmployeeNumber, creditLimit

from customers where creditLimit > 130000 order by creditLimit ASC;

	customerNumber	customerName	phone	country	state	salesRepEmployeeNumber	creditLimit
•	187	AV Stores, Co.	(171) 555-1555	UK	NULL	1501	136800.00
	151	Muscle Machine Inc	2125557413	USA	NY	1286	138500.00
	298	Vida Sport, Ltd	0897-034555	Switzerland	NULL	1702	141300.00
	124	Mini Gifts Distributors Ltd.	4155551450	USA	CA	1165	210500.00
	141	Euro + Shopping Channel	(91) 555 94 44	Spain	NULL	1370	227600.00
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Question 7:

 $select\ O.productCode,\ O.productName,$

count(E.orderNumber) as OrderCount

from products O, orderdetails E

where O.productVendor = 'Welly Diecast Productions' and E.productCode = O.productCode group by O.productCode

order by OrderCount DESC /*There is actually a tie for the largest order count*/ LIMIT 2;

productCode	productName	OrderCount
S12_1666	1958 Setra Bus	28
S18_2625	1936 Harley Davidson El Knucklehead	28

Question 8:

select O.customerName, O.city, O.state, O.country, O.creditLimit, count(E.orderNumber) as TotalProducts from customers O, orders E where E.orderNumber in (

select orderNumber
from orders
where customerNumber = O.customerNumber)
group by O.customerNumber
order by TotalProducts DESC
LIMIT 3;

	customerName	city	state	country	creditLimit	TotalProducts
١	Euro + Shopping Channel	Madrid	NULL	Spain	227600.00	26
	Mini Gifts Distributors Ltd.	San Rafael	CA	USA	210500.00	17
	Australian Collectors, Co.	Melbourne	Victoria	Australia	117300.00	5

Question 9:

select officeCode, city, state, country from offices

where NOT country = 'USA' and addressLine2 is NULL;

	officeCode	city	state	country
•	4	Paris	NULL	France
	5	Tokyo	Chiyoda-Ku	Japan
	NULL	NULL	NULL	NULL

Question 10:
select productName, productLine
from products
where (productName like '193%') and (productLine = 'Vintage Cars');

	productName	productLine
•	1937 Lincoln Berline	Vintage Cars
	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
	1932 Model A Ford J-Coupe	Vintage Cars
	1934 Ford V8 Coupe	Vintage Cars
	1932 Alfa Romeo 8C2300 Spider Sport	Vintage Cars
	1939 Cadillac Limousine	Vintage Cars
	1939 Chevrolet Deluxe Coupe	Vintage Cars
	1938 Cadillac V-16 Presidential Limousine	Vintage Cars
	1937 Horch 930V Limousine	Vintage Cars
	1936 Mercedes Benz 500k Roadster	Vintage Cars
	1936 Chrysler Airflow	Vintage Cars
	1930 Buick Marquette Phaeton	Vintage Cars

	orderNumber	requiredDate	shippedDate	Datediff
•	10363	2005-01-12	2005-01-10	2
	10373	2005-02-08	2005-02-06	2
	10388	2005-03-11	2005-03-09	2
	10389	2005-03-09	2005-03-08	1
	10395	2005-03-24	2005-03-23	1
	10402	2005-04-14	2005-04-12	2
	10408	2005-04-29	2005-04-27	2
	10411	2005-05-08	2005-05-06	2
	10416	2005-05-16	2005-05-14	2
	10417	2005-05-19	2005-05-19	0

	customerNumber	customerName	city	country	Orders
•	141	Euro + Shopping Channel	Madrid	Spain	26
	124	Mini Gifts Distributors Ltd.	San Rafael	USA	17
	114	Australian Collectors, Co.	Melbourne	Australia	5
	145	Danish Wholesale Imports	Kobenhavn	Denmark	5
	148	Dragon Souveniers, Ltd.	Singapore	Singapore	5
	119	La Rochelle Gifts	Nantes	France	4
	121	Baane Mini Imports	Stavern	Norway	4
	128	Blauer See Auto, Co.	Frankfurt	Germany	4
	131	Land of Toys Inc.	NYC	USA	4
	144	Volvo Model Replicas, Co	Luleå	Sweden	4
	103	Atelier graphique	Nantes	France	3
	112	Signal Gift Stores	Las Vegas	USA	3
	129	Mini Wheels Co.	San Franci	USA	3
	146	Saveley & Henriot, Co.	Lyon	France	3
	125	Havel & Zbyszek Co	Warszawa	Poland	0

Question 13:

select distinct O.customerNumber, O.customerName
from customers O left outer join orders E
on O.customerNumber = E.customerNumber
where (E.customerNumber is NULL) and (O.country = 'Switzerland');

	customerNumber	customerName	
•	293	BG&E Collectables	
	376	Precious Collectables	

Question 14:

select O.productLine,

SUM(E.quantityOrdered) as quantity from products O, orderdetails E where (O.productCode = E.productCode) group by O.productLine having SUM(E.quantityOrdered) > 12000;

	productLine	quantity	
•	Classic Cars	35582	
	Motorcycles	12778	
	Vintage Cars	22933	

Question 15:

create table if not exists TopCustomers(

CustomerNumber INT not null,

ContactDate DATE not null,

OrderCount INT not null,

OrderTotal decimal(9, 2) not null,

constraint TopCustomer_PK primary key (CustomerNumber)

);



Question 16:

	CustomerNumber	ContactDate	OrderCount	OrderTotal
Þ	114	2021-02-28	55	180585.07
	119	2021-02-28	53	158573.12
	124	2021-02-28	180	591827.34
	131	2021-02-28	49	149085.15
	141	2021-02-28	259	820689.54
	146	2021-02-28	41	130305.35
	148	2021-02-28	43	156251.03
	151	2021-02-28	48	177913.95
	187	2021-02-28	51	148410.09
	276	2021-02-28	46	137034.22
	282	2021-02-28	46	133907.12
	321	2021-02-28	41	132340.78
	323	2021-02-28	46	154622.08
	382	2021-02-28	40	137480.07
	450	2021-02-28	40	143536.27
	496	2021-02-28	48	137460.79
3	NULL	NULL	NULL	NULL

Question 17:

select customerNumber, contactDate, orderCount, orderTotal from topcustomers order by orderTotal DESC LIMIT 5;

	customerNumber	contactDate	orderCount	orderTotal
Þ	141	2021-02-28	259	820689.54
	124	2021-02-28	180	591827.34
	114	2021-02-28	55	180585.07
	151	2021-02-28	48	177913.95
	119	2021-02-28	53	158573.12

Question 18:

alter table TopCustomers add column CustomerRatings INT default (0);

	CustomerNumber	ContactDate	OrderCount	OrderTotal	CustomerRatings
١	114	2021-02-28	55	180585.07	0
	119	2021-02-28	53	158573.12	0
	124	2021-02-28	180	591827.34	0
	131	2021-02-28	49	149085.15	0
	141	2021-02-28	259	820689.54	0
	146	2021-02-28	41	130305.35	0
	148	2021-02-28	43	156251.03	0
	151	2021-02-28	48	177913.95	0
	187	2021-02-28	51	148410.09	0
	276	2021-02-28	46	137034.22	0
	282	2021-02-28	46	133907.12	0
	321	2021-02-28	41	132340.78	0
	323	2021-02-28	46	154622.08	0
	382	2021-02-28	40	137480.07	0
	450	2021-02-28	40	143536.27	0
	496	2021-02-28	48	137460.79	0
	NULL	NULL	NULL	NULL	NULL

Question 19:

SET SQL_SAFE_UPDATES = 0; update TopCustomers set CustomerRatings = FLOOR(RAND()*(10+1)) where customerNumber is not NULL;

	CustomerNumber	ContactDate	OrderCount	OrderTotal	CustomerRatings
١	114	2021-02-28	55	180585.07	2
	119	2021-02-28	53	158573.12	2
	124	2021-02-28	180	591827.34	3
	131	2021-02-28	49	149085.15	0
	141	2021-02-28	259	820689.54	1
	146	2021-02-28	41	130305.35	7
	148	2021-02-28	43	156251.03	10
	151	2021-02-28	48	177913.95	6
	187	2021-02-28	51	148410.09	2
	276	2021-02-28	46	137034.22	3
	282	2021-02-28	46	133907.12	9
	321	2021-02-28	41	132340.78	5
	323	2021-02-28	46	154622.08	10
	382	2021-02-28	40	137480.07	4
	450	2021-02-28	40	143536.27	9
	496	2021-02-28	48	137460.79	1
	NULL	NULL	NULL	NULL	NULL

Question 20: NOTE different ratings cause multiple queries

select customerNumber, contactDate, orderCount, orderTotal, CustomerRatings from TopCustomers

order by CustomerRatings DESC;

	customerNumber	contactDate	orderCount	orderTotal	CustomerRatings
١	114	2021-02-28	55	180585.07	10
	141	2021-02-28	259	820689.54	10
	119	2021-02-28	53	158573.12	8
	131	2021-02-28	49	149085.15	7
	148	2021-02-28	43	156251.03	6
	450	2021-02-28	40	143536.27	6
	496	2021-02-28	48	137460.79	6
	146	2021-02-28	41	130305.35	5
	151	2021-02-28	48	177913.95	4
	187	2021-02-28	51	148410.09	3
	282	2021-02-28	46	133907.12	3
	124	2021-02-28	180	591827.34	2
	276	2021-02-28	46	137034.22	2
	323	2021-02-28	46	154622.08	2
	321	2021-02-28	41	132340.78	0
	382	2021-02-28	40	137480.07	0

Question 21:

drop table TopCustomers;