Question1:

SELECT distinct city

FROM customers

where country = 'spain'

order by city;

city

Barcelona

Madrid

Sevilla

Question2:

SELECT employeeNumber, firstName, firstName

FROM employees

where officeCode in (

select officeCode

from offices

where city = 'Paris')

employeeNumber	firstName firstName
1102	Gerard Gerard
1337	Loui Loui
1370	Gerard Gerard
1401	Pamela Pamela
1702	Martin Martin
NULL	NULL

Question3:

SELECT ProductCode, ProductName, ProductScale, ProductVendor, buyPrice

FROM products

where productline ='Motorcycles'

having buyPrice<80 AND buyPrice >50

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

Question4:

SELECT productCode, productName, productLine, quantityInStock, MIN(buyPrice)

FROM products

where productLine='Vintage Cars'

productCode	productName	productLine	quantityInStock	MIN(buyPrice)
S18_1342	1937 Lincoln Berline	Vintage Cars	8693	20.61

Question5:

SELECT productName, productVendor, quantityinStock, quantityOrdered * priceEach as 'total cost'

FROM orderdetails o, products p

where o.productCode=p.productCode

order by quantityOrdered * priceEach desc limit 5;

productName	productVendor	quantityinStock	total cost
2003 Harley-Davidson Eagle Drag Bike	Red Start Diecast	5582	11503.14
1969 Dodge Charger	Welly Diecast Productions	7323	11170.52
1917 Grand Touring Sedan	Welly Diecast Productions	2724	10723.60
1968 Ford Mustang	Autoart Studio Design	68	10460.16
1952 Alpine Renault 1300	Classic Metal Creations	7305	10286.40

Question6:

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

FROM customers

where creditLimit>130000

order by creditLimit

customerNu	umber customerName	phone	country	state	salesRepEmployeeN	Number 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
HULL	NULL	NULL	NULL	NULL	NULL	NULL

Question7:

use classicmodels;

SELECT p.productCode, p.productName, quantityOrdered as 'OrderCount'

FROM orderdetails o, products p

where o.productCode=p.productCode AND p.productVendor='Welly Diecast Productions' order by quantityOrdered ASC limit 1

productCode	OrderCount	
S12_4675	1969 Dodge Charger	97

Question8:

use classicmodels;

SELECT c.customerName, c.customerName, c.city, c.state, c.country, c.creditLimit, sum(quantityOrdered)

FROM customers c, orders o, orderdetails d

where c.customerNumber=o.customerNumber AND d.orderNumber=o.orderNumber group by c.customerNumber

order by sum(quantityOrdered) desc limit 3

cust	omerName	customerName	city	state	country	creditLimit	sum(quantityOrder
▶ Euro	o+ Shopping Channel	Euro+ Shopping Channel	Madrid	NULL	Spain	227600.00	9327
Mini	Gifts Distributors Ltd.	Mini Gifts Distributors Ltd.	San Rafael	CA	USA	210500.00	6366
Aus	tralian Collectors, Co.	Australian Collectors, Co.	Melbourne	Victoria	Australia	117300.00	1926

Question9:

use classicmodels;

SELECT OfficeCode, city, state, country

FROM offices

where NOT country= 'USA' AND addressLine2 is null

Paris HULL France		OfficeCode	city	state	country
Talana Olaharda Ku Janan	⊳	4	Paris	NULL	France
5 Tokyo Chiyoda-Ku Japan		5	Tokyo	Chiyoda-Ku	Japan

Question10:

use classicmodels;

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

Question11.

use classicmodels;

SELECT orderNumber, orderDate, requiredDate, shippedDate, Extract(Month from shippedDate) as 'ship month', requiredDate-shippedDate as 'date difference' FROM orders

where requiredDate-shippedDate<3 AND YEAR(shippedDate)=2005;

orderNum	ber orderDate	requiredDate	shippedDate	ship mo	nth date difference
10363	2005-01-06	2005-01-12	2005-01-10	1	2
10373	2005-01-31	2005-02-08	2005-02-06	2	2
10388	2005-03-03	2005-03-11	2005-03-09	3	2
10389	2005-03-03	2005-03-09	2005-03-08	3	1
10395	2005-03-17	2005-03-24	2005-03-23	3	1
10402	2005-04-07	2005-04-14	2005-04-12	4	2
10408	2005-04-22	2005-04-29	2005-04-27	4	2
10411	2005-05-01	2005-05-08	2005-05-06	5	2
10416	2005-05-10	2005-05-16	2005-05-14	5	2
10417	2005-05-13	2005-05-19	2005-05-19	5	0

Question12:

use classicmodels;

SELECT c.customerNumber, c.customerName, c.city, c.country, count(o.orderNumber) as 'Orders'

FROM customers c, orders o

where c.customerNumber=o.customerNumber and c.customerNumber<150

group by c.customerNumber

order by count(o.orderNumber) desc

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 Fran	USA	3
146	Saveley & Henriot, Co.	Lyon	France	3

Question13:

use classicmodels;

SELECT c.customerNumber, c.customerName

FROM customers c

where c.customerNumber not in(

select customerNumber

from payments)AND c.country='Switzerland'

customerNumber customerName 293 BG&E Collectables 376 Precious Collectables NULL Question14:

use classicmodels; use classicmodels;

SELECT sum(o.quantityOrdered), p.productLine

FROM orderdetails o, products p

where o.productCode=p.productCode

group by p.productLine

having sum(o.quantityOrdered)>12000

sum(o.quantityOrder	e productLine
35582	Classic Cars
12778	Motorcycles
22933	Vintage Cars

Question 15:

CREATE TABLE if not exists TopCustomers (

CustomerNumber int not null,

OrderCount int not null,

OrderTotal decimal(9,2) not null,

ContactDate date not null,

primary key (CustomerNumber)

);

Question16:

INSERT INTO TopCustomers (CustomerNumber, ContactDate, OrderCount, OrderTotal) select* from(select customerNumber,curdate(),count(*), sum(orderdetails.quantityOrdered* orderdetails.priceEach) as total from orders join orderdetails

on orders.orderNumber=orderdetails.orderNumber group by customerNumber)as n where n.total>130000;

Question17:

select *

from TopCustomers

order by OrderTotal limit 5

CustomerNumber	OrderCount	OrderTotal	ContactDate
146	41	130305.35	2021-03-01
321	41	132340.78	2021-03-01
282	46	133907.12	2021-03-01
276	46	137034.22	2021-03-01
496	48	137460.79	2021-03-01
NULL	NULL	NULL	NULL

Question18:

ALTER TABLE TopCustomers2

ADD COLUMN CustomerRatings INT DEFAULT 0 AFTER ContactDate;

Question19:

UPDATE TopCustomers2

SET CustomerRatings=RAND()*(11-1)+1

WHERE CustomerNumber IS NOT NULL;

Time Action Response Duration / Fetch Time

1 12:02:39 UPDATE TopCustomers2 SET CustomerRatings=RAND()*(11-1)+1 WHERE CustomerNumber IS NOT NULL 16 row(s) affected Rows matched: 16 Changed: 16 W... 0.0041 sec

Question20:

SELECT * FROM TopCustomers2

ORDER BY CustomerRatings DESC;

	CustomerNumber	OrderCount	OrderTotal	ContactDate	CustomerRatings
	148	43	156251.03	2021-03-01	10
	450	40	143536.27	2021-03-01	10
	119	53	158573.12	2021-03-01	9
	496	48	137460.79	2021-03-01	9
	124	180	591827.34	2021-03-01	7
	141	259	820689.54	2021-03-01	7
	114	55	180585.07	2021-03-01	6
	131	49	149085.15	2021-03-01	6
	146	41	130305.35	2021-03-01	6
	323	46	154622.08	2021-03-01	6
	282	46	133907.12	2021-03-01	5
	382	40	137480.07	2021-03-01	4
	187	51	148410.09	2021-03-01	3
	276	46	137034.22	2021-03-01	3
	321	41	132340.78	2021-03-01	2
	151	48	177913.95	2021-03-01	1
	NULL	NULL	NULL	NULL	NULL

QUESTION21: ALTER TABLE TopCustomers2

DROP COLUMN CustomerRatings;