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Feb 21, 2020

Question 1:

SELECT city

FROM `classicmodels`.`customers`

WHERE country = "Australia"

ORDER BY city ASC;

city
▶ Chatswood
Glen Waverly
Melbourne
North Sydney
South Brisbane

*Question 2:

SELECT employeeNumber, lastName, firstName, extension

FROM `classicmodels`.`employees`

WHERE officeCode = (select officeCode from offices where city = "Sydney");

employeeNumber	lastName	firstName	extension
▶ 1088	Patterson	William	x4871
1611	Fixter	Andy	x101
1612	Marsh	Peter	x102
1619	King	Tom	x103
* NULL	NULL	NULL	NULL

Question 3:

SELECT productCode, productName, productVendor, quantityInStock, productLine

FROM `classicmodels`.`products`

WHERE quantityInStock > 4000 and quantityInStock < 5000;

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

Question 4:

SELECT productCode, productName, productVendor, buyPrice

FROM `classicmodels`.`products`

WHERE msrp = (select max(msrp) from products);

	productCode	productName	productVendor	buyPrice
▶	S10_1949	1952 Alpine Renault 1300	Classic Metal Creations	98.58
＊	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
▶	1939 Chevrolet Deluxe Coupe	33.19	22.57	10.62

*Question 6:

SELECT country, count(*) as 'Customers'

FROM `classicmodels`.`customers`

group by country

having Customers > 5

order by country ASC;

	country	Customers
▶	France	12
	Germany	13
	Spain	7
	USA	36

*Question 7:

SELECT pr.productCode, p.productName, COUNT(*) AS 'OrderCount'

FROM products p , orderdetails pr , orders o

where pr.orderNumber = o.orderNumber and p.productCode = pr.productCode

group by pr.productcode , p.productName

order by OrderCount DESC

limit 1;

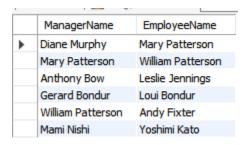|	productCode	productName	OrderCount
▶	S18_3232	1992 Ferrari 360 Spider red	53

Question 8:

SELECT CONCAT(m.firstName, ' ', m.lastName)'ManagerName' , CONCAT(e.firstName, ' ', e.lastName)'EmployeeName'

FROM employees e

INNER JOIN employees m ON m.employeeNumber = e.reportsTo

GROUP BY ManagerName;

	ManagerName	EmployeeName
▶	Diane Murphy	Mary Patterson
	Mary Patterson	William Patterson
	Anthony Bow	Leslie Jennings
	Gerard Bondur	Loui Bondur
	William Patterson	Andy Fixter
	Mami Nishi	Yoshimi Kato

Question 9:

SELECT employeeNumber, lastName, firstName

FROM `classicmodels`.`employees`

where reportsTo is NULL

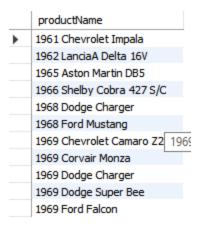|	employeeNumber	lastName	firstName
▶	1002	Murphy	Diane
*	NULL	NULL	NULL

Question 10:

SELECT productName , productLine

FROM `classicmodels`.`products`

WHERE productLine = "Classic Cars" and productName > 1959 and productName < 1970

order by productName ASC

productName
1961 Chevrolet Impala
1962 LanciaA Delta 16V
1965 Aston Martin DB5
1966 Shelby Cobra 427 S/C
1968 Dodge Charger
1968 Ford Mustang
1969 Chevrolet Camaro Z2 1969
1969 Corvair Monza
1969 Dodge Charger
1969 Dodge Super Bee
1969 Ford Falcon

*Question 11:

SELECT monthname(orderDate) as "Month" , year(orderDate) as 'Year' , count(*) as 'Orders'

FROM `classicmodels`.`orders`

group by monthname(orderDate) , year(orderDate)

order by Orders DESC

limit 2;

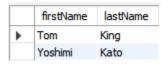| Month	Year	Orders
November	2004	33
November	2003	30

*Question 12:

SELECT distinct e.firstName, e.lastName

FROM `classicmodels`.`employees` e

left outer join customers c

on e.employeeNumber = c.salesRepEmployeeNumber

where E.jobTitle = "Sales Rep" and c.salesRepEmployeeNumber is NULL

firstName	lastName
Tom	King
Yoshimi	Kato

Question 13:

SELECT customerName

FROM `classicmodels`.`customers`

where country = "Switzerland" and customerNumber not in (select distinct customerNumber from orders)

customerName
▸ BG&E Collectables
Precious Collectables

Question 14:

```
SELECT c.customerName , SUM(pr.quantityOrdered)

FROM customers c

        left outer join orders o

    on c.customerNumber = o.customerNumber

    left outer join orderDetails pr

    on o.orderNumber = pr.orderNumber

group by c.customerName

having SUM(pr.quantityOrdered) < 500;
```

customerName	SUM(pr.quantityOrdered)
▸ Atelier graphique	270
Cambridge Collectables Co.	357
Clover Collections, Co.	490
Auto-Moto Classics Inc.	287
Boards & Toys Co.	102
CAF Imports	468
Royale Belge	278
Bavarian Collectables Imports, Co.	401
Microscale Inc.	381
Frau da Collezione	272
Double Decker Gift Stores, Ltd	357

Question 15:

```
drop table if exists 'lowcustomer';


create table 'lowCustomers' (

'customerNumber' int(11) not null,

'contactDate' date not null,

'orderTotal' decimal(9,2) not null,

CONSTRAINT 'lowCustomer_PK'
```

PRIMARY KEY('customerNumber'));

Question 16:

INSERT INTO `classicmodels`.`lowcustomers`

(`CustomerNumber`,

`ContactDate`,

`OrderTotal`)

select c.customerNumber, curdate(), SUM(pr.priceEach * pr.quantityOrdered) as 'orderTotal'

from customers c

LEFT OUTER JOIN order o

ON c.customerNumber = o.customerNumber

LEFT OUTER JOIN orderDetails pr

ON o.orderNumber = pr.prderNumber

group by c.customerNumber

having OrderTotal < 50000;

*Question 17:

SELECT CustomerNumber, ContactDate, OrderTotal

FROM classicmodels.lowcustomers

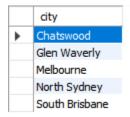|	CustomerNumber	ContactDate	OrderTotal
▶	1	2020-02-23	100.00
	103	2020-02-23	4080.00
	112	2020-02-23	4080.00
	114	2020-02-23	4080.00
	119	2020-02-23	4080.00
	121	2020-02-23	4080.00
	124	2020-02-23	4080.00
	125	2020-02-23	4080.00
	128	2020-02-23	4080.00
	129	2020-02-23	4080.00
	131	2020-02-23	4080.00
	141	2020-02-23	4080.00
	144	2020-02-23	4080.00
	145	2020-02-23	4080.00
	146	2020-02-23	4080.00
	148	2020-02-23	4080.00

Question 18:

ALTER TABLE LowCustomers

ADD COLUMN OrderCount INT;

Question 19:

UPDATE LowCustomers

SET OrderCount = (SELECT FLOOT(RAND()*(19)))

WHERE CustomerNumber > 0;

	city
▶	Chatswood
	Glen Waverly
	Melbourne
	North Sydney
	South Brisbane

Question 20:

SELECT CustomerNumber, ContactDate, OrderTotal

FROM classicmodels.lowcustomer

order by OrderCount DESC;

Question 21:

DROP TABLE `classicmodels`.`lowcustomers`;