Homework 3

Name: Chakrya Ros

1. select productLine from productlines;

productLine
▶ Classic Cars
Motorcycles
Planes
Ships
Trains
Trucks and Buses
Vintage Cars
NULL

2. select employeeNumber, lastName, firstName, Extension from employees where officeCode = 1;

employeeNumber	lastName	firstName	Extension
▶ 1002	Murphy	Diane	x5800
1056	Patterson	Mary	x4611
1076	Firrelli	Jeff	x9273
1143	Bow	Anthony	x5428
1165	Jennings	Leslie	x3291
1166	Thompson	Leslie	x4065
NULL	NULL	NULL	NULL

3. select productcode,productname,productvendor,quantityinstock from products where productline='Vintage Cars' and QuantityInStock between 1000 and 5000;

productcode	productname	productvendor	quantityinstock
▶ S18_1749	1917 Grand Touring Sedan	Welly Diecast Productions	2724
S18_2949	1913 Ford Model T Speedster	Carousel DieCast Legends	4189
S18_3140	1903 Ford Model A	Unimax Art Galleries	3913
S18_3856	1941 Chevrolet Special Deluxe Cabriolet	Exoto Designs	2378
S24_2022	1938 Cadillac V-16 Presidential Limousine	Classic Metal Creations	2847
S24_3420	1937 Horch 930V Limousine	Autoart Studio Design	2902
S24_3969	1936 Mercedes Benz 500k Roadster	Red Start Diecast	2081
S24_4258	1936 Chrysler Airflow	Second Gear Diecast	4710

4. select productcode,productname,productvendor,buyprice and msrp from products where MSRP = (select min(msrp) from products);

productcode	productname	productvendor	buyprice and msrp	
▶ S24_1937	1939 Chevrolet Deluxe Coupe	Motor City Art Classics	1	

5.

select productName,max((MSRP-buyPrice)) as 'Profit' from products;

productName	Profit	
▶ 1969 Harley Davidson Ultimate Chopper	115.72	

6. select country, count(customername) from customers group by country having count(customername) >= 4 and count(customername) <= 12;

country	count(customername)	
▶ France	12	
Australia	5	
Spain	7	
UK	5	
Italy	4	
New Zealand	4	

7. select x.productCode, products.productName, max(x.productCount) as OrderCount from (select productCode, count(*) as productCount from orderdetails group by productCode) as x join products on products.productCode = x.productCode;

productCode	productName	OrderCount	
▶ S10_1678	1969 Harley Davidson Ultimate Chopper	53	

8. select employeeNumber, concat(firstName,' ',lastName) as name from employees where reportsTo = 1102 and 1002;

employeeNumber	name
▶ 1337	Loui Bondur
1370	Gerard Hernandez
1401	Pamela Castillo
1501	Larry Bott
1504	Barry Jones
1702	Martin Gerard

9. select employeeNumber, lastName, firstName from employees where jobTitle = "President";

employeeNumber	lastName	firstName	
▶ 1002	Murphy	Diane	
NULL	NULL	NULL	

10. select productName from (select productName, substring(productName, 1, 4)as year from products where productLine = "Vintage Cars") as x where year >= '1930' and year < '1940';

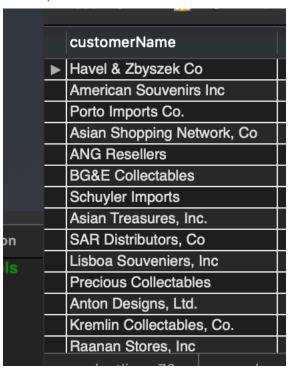| productName	
▶ 1937 Lincoln Berline	
1936 Mercedes-Benz 500K Special Roadster	
1932 Model A Ford J-Coupe	
1934 Ford V8 Coupe	
1932 Alfa Romeo 8C2300 Spider Sport	
1939 Cadillac Limousine	
1939 Chevrolet Deluxe Coupe	
1938 Cadillac V-16 Presidential Limousine	
1937 Horch 930V Limousine	
1936 Mercedes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

11. select monthname(orderdate) as 'Month', count(ordernumber) as 'Orders' from orders where year(orderdate)=2003 group by monthname(orderdate) order by count(ordernumber) desc limit 1;

Month	Orders	
▶ November	30	

12. select employees.firstname,employees.lastname from employees left join customers on employees.employeenumber=customers.salesrepemployeenumber where employees.jobtitle='Sales Rep' and customers.salesrepemployeenumber is null;

firstname	lastname
▶ Tom	King
Yoshimi	Kato

13. select customers.customerName from customers where country != "Germany" and not exists (select * from orders where customerNumber = customers.customerNumber);

customerName
▶ Havel & Zbyszek Co
American Souvenirs Inc
Porto Imports Co.
Asian Shopping Network, Co
ANG Resellers
BG&E Collectables
Schuyler Imports
Asian Treasures, Inc.
SAR Distributors, Co
Lisboa Souveniers, Inc
Precious Collectables
Anton Designs, Ltd.
Kremlin Collectables, Co.
Raanan Stores, Inc

14. select customerName, totalOrders from (select customerNumber, sum(quantityOrdered) as totalOrders from orderdetails join orders on orders.orderNumber = orderdetails.orderNumber group by customerNumber) as x join customers on customers.customerNumber = x.customerNumber where totalOrders < 400;

customerName	totalOrders
▶ Atelier graphique	270
Cambridge Collectables Co.	357
Auto-Moto Classics Inc.	287
Boards & Toys Co.	102
Royale Belge	278
Microscale Inc.	381
Frau da Collezione	272
Double Decker Gift Stores, Ltd	357

15. CREATE TABLE IF NOT EXISTS `classicmodels`.`TopCustomers` (`CustomerNumber` INT NOT NULL,   `ContactDate` DATE NOT NULL,   `OrderTotal` DECIMAL(9,2) NOT NULL, CONSTRAINT TopCustomer_PK PRIMARY KEY (`CustomerNumber`));

16. insert into TopCustomers (customerNumber, ContactDate, OrderTotal) select customerNumber, now() as currentDate, totalValue from (select x.customerNumber, sum(x.totalValue) as totalValue from (select customerNumber, (orderdetails.priceEach * orderdetails.quantityOrdered) as totalValue from orderdetails join orders on orders.orderNumber = orderdetails.orderNumber) as x group by x.customerNumber) as y where y.totalValue > 140000;

17. select CustomerNumber, ContactDate, OrderTotal from TopCustomers order by OrderTotal desc;

CustomerNumber	ContactDate	OrderTotal
▶ 141	2019-03-05	820689.54
124	2019-03-05	591827.34
114	2019-03-05	180585.07
151	2019-03-05	177913.95
119	2019-03-05	158573.12
148	2019-03-05	156251.03
323	2019-03-05	154622.08
131	2019-03-05	149085.15
187	2019-03-05	148410.09
450	2019-03-05	143536.27

18. alter table TopCustomers add OrderCount int;

19. update TopCustomers set OrderCount = floor(rand() * (18-0+1) + 0);

20. select customerNumber, ContactDate, OrderTotal, OrderCount from TopCustomers order by OrderCount desc;

customerNumber	ContactDate	OrderTotal	OrderCount
119	2019-03-05	158573.12	18
187	2019-03-05	148410.09	18
141	2019-03-05	820689.54	14
151	2019-03-05	177913.95	14
148	2019-03-05	156251.03	11
323	2019-03-05	154622.08	11
131	2019-03-05	149085.15	7
114	2019-03-05	180585.07	5
450	2019-03-05	143536.27	2
124	2019-03-05	591827.34	1

21. Drop table TopCustomers;