Homework # 3 - SQL

Problem 1

select productLine from productlines;

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

Problem 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

Problem 3

select ProductCode, ProductName, ProductVendor, quantityinstock from products where quantityinstock between 1000 and 5000 and productline = "Vintage Cars";

ProductCode	ProductName	ProductVendor	quantityinstock
		Welly Diecast	
S18_1749	1917 Grand Touring Sedan	Productions	2724
		Carousel DieCast	
S18_2949	1913 Ford Model T Speedster	Legends	4189

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•	1	1	1
S18_3140	1903 Ford Model A	Unimax Art Galleries	3913
S18_3856	1941 Chevrolet Special Deluxe Cabriolet	Exoto Designs	2378
	1938 Cadillac V-16 Presidential		
S24_2022	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

Problem 4

select Productcode, ProductName, productvendor, buyprice, MSRP from products where MSRP = (

select min(msrp) from products)

Productcode	ProductName	productvendor	buyprice	MSRP
	1939 Chevrolet Deluxe	Motor City Art		
S24_1937	Coupe	Classics	22.57	33.19

Problem 5

select ProductName, MSRP - BuyPrice as PROFIT from products order by profit desc limit 1;

Produ	ıctName			PROFIT
1952	Alpine	Renault	1300	115.72

Problem 6

Select distinct country, count(*) as customers from customers group by country having count(*) between 4 and 12 order by 2 desc;

country	customers	
France	12	
Spain	7	

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Australia	5
UK	5
Italy	4
New	
Zealand	4

Problem 7

Select p.productcode, productname, count(ordernumber) as OrderCount from products p join orderdetails o on p.productcode = o.productcode group by productcode, productname order by 3 desc limit 1;

productcode	productname	total
S18_3232	1992 Ferrari 360 Spider red	53

Problem 8

Select employeenumber, concat(firstname," ",lastname) as name from employees where reportsto in ('1002', '1102');

employeenumber	name
1056	Mary Patterson
1076	Jeff Firrelli
1337	Loui Bondur
	Gerard
1370	Hernandez
1401	Pamela Castillo
1501	Larry Bott
1504	Barry Jones
1702	Martin Gerard

Problem 9

Select employeenumber, lastname, firstname from employees

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where reportsto is null;

employeenumber	lastname	firstname
1002	Murphy	Diane

Problem 10

Select productname from products where productline = "Vintage Cars" and productname like "193%" order by productname;

Problem 11

select count(ordernumber), monthname(orderdate) as ordermonth from orders where extract(year from orderdate) = '2003' group by ordermonth order by 1 desc limit 1;

count (ordernumber)	ordermonth	
30	November	

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Problem 12

select lastname, firstname from employees e left outer join customers c on e.employeenumber = c.salesrepemployeenumber where customername is null and jobtitle = "Sales Rep";

lastname	firstname
King	Tom
Kato	Yoshimi

Problem 13

select customername, country from customers c left outer join orders o on c.customernumber = o.customernumber where o.customernumber is null and not country = 'Germany';

, , , , , , , , , , , , , , , , , , , ,		
customername	country	
Havel & Zbyszek Co	Poland	
American Souvenirs Inc	USA	
Porto Imports Co.	Portugal	
Asian Shopping Network,		
Со	Singapore	
ANG Resellers	Spain	
BG&E Collectables	Switzerland	
Schuyler Imports	Netherlands	
Asian Treasures, Inc.	Ireland	
SAR Distributors, Co	South Africa	
Lisboa Souveniers, Inc	Portugal	
Precious Collectables	Switzerland	
Anton Designs, Ltd.	Spain	
Kremlin Collectables, Co.	Russia	
Raanan Stores, Inc	Israel	

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Problem 14

customername	totalq
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

Problem 15

No answer set

Problem 16

```
insert into TopCustomers
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```
select c.customernumber, CURRENT_date, SUM(priceEach * Quantityordered)
from Customers c, Orders o, OrderDetails d
where c.Customernumber = o.Customernumber
and o.Ordernumber = d.Ordernumber
group by c.Customernumber
having SUM(priceEach * Quantityordered) > 140000;
```

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No answer set

Problem 17

select * from topcustomers order by 3 desc;

Customernumber	ContactDate	OrderTotal
141	2/22/19	820689.54
124	2/22/19	591827.34
114	2/22/19	180585.07
151	2/22/19	177913.95
119	2/22/19	158573.12
148	2/22/19	156251.03
323	2/22/19	154622.08
131	2/22/19	149085.15
187	2/22/19	148410.09
450	2/22/19	143536.27

Problem 18

alter table topcustomers add column OrderCount integer;

No answer set

Problem 19

update topcustomers
set ordercount = floor((rand()*18));

No answer set

Problem 20

select * from topcustomers
order by 4 desc;

(NOTE: dates and ordercount will vary...)

Customernumber	ContactDate	OrderTotal	OrderCount
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141	2/22/19	820689.54	16
187	2/22/19	148410.09	13
124	2/22/19	591827.34	12
323	2/22/19	154622.08	8
131	2/22/19	149085.15	7
148	2/22/19	156251.03	7
151	2/22/19	177913.95	7
450	2/22/19	143536.27	4
114	2/22/19	180585.07	2
119	2/22/19	158573.12	0

Problem 21

Drop table topcustomers;

No answer set