

H.W #3

Muntaha Pasha

```
use classicmodels;
```

```
/*1*/
```

```
select productline from productlines;
```

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

```
/*2*/
```

```
select employeeid,lastname,firstname,extension from employees where  
officeid=1;
```

employeeid	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

```
/*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,msrp from products  
where MSRP=(select min(MSRP) from products);
```

productcode	productname	productvendor	buyprice	msrp
S24_1937	1939 Chevrolet Deluxe Coupe	Motor City Art Classics	22.57	33.19

/*5*/

```
select productname,max((MSRP-buyprice)) as 'Profit' from products;
```

	productname	Profit
▶	1969 Harley Davidson Ultimate Chopper	115.72

/*6*/

```
select country,count(*) as 'Customers' from customers group by country having  
count(*) between 4 and 12 order by count(*) desc;
```

	country	Customers
▶	France	12
	Spain	7
	Australia	5
	UK	5
	Italy	4
	New Zealand	4

/*7*/

```
select products.productcode,products.productname,orderdetails.quantityordered  
as 'OrderCount' from products join orderdetails on  
orderdetails.productcode=products.productcode where quantityordered=(select  
max(quantityordered) from orderdetails);
```

	productcode	productname	OrderCount
▶	S12_4675	1969 Dodge Charger	97

/*8*/

```
select employeenumber,concat(firstname, ' ', lastname) as 'name' from  
employees where reportsto=1102 or reportsto=1002;
```

	employeenumber	name
▶	1056	Mary Patterson
	1076	Jeff Firrelli
	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 reportsto is  
null;
```

	employeenumber	lastname	firstname
▶	1002	Murphy	Diane

/*10*/

```
select productname from products where productline='Vintage Cars' and  
SUBSTRING(productname,1,4) between 1930 and 1939;
```

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 Souvenirs, Inc
Precious Collectables
Anton Designs, Ltd.
Kremlin Collectables, Co.
Raanan Stores, Inc

/*14*/

```
select customers.customername,sum(orderdetails.quantityordered) as 'Quantity
Ordered' from customers left join orders on
customers.customernumber=orders.customernumber left join orderdetails on
orders.ordernumber=orderdetails.ordernumber group by customers.customername
having sum(orderdetails.quantityordered)<400;
```

	customername	Quantity Ordered
►	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,
  `ContractDate` DATE NOT NULL,
  `OrderTotal` DECIMAL(9,2) NOT NULL,
  CONSTRAINT TopCustomer_PK PRIMARY KEY (`CustomerNumber`)
)
```

/*16*/

```
insert into TopCustomers (customerNumber, ContractDate, 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, ContractDate, OrderTotal from TopCustomers order by
OrderTotal desc;
```

	customerNumber	ContractDate	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, ContractDate, OrderTotal, OrderCount from TopCustomers  
order by OrderCount desc;
```

	customerNumber	ContractDate	OrderTotal	OrderCount
►	119	2019-03-05	158573.12	14
	450	2019-03-05	143536.27	10
	114	2019-03-05	180585.07	9
	141	2019-03-05	820689.54	8
	124	2019-03-05	591827.34	5
	187	2019-03-05	148410.09	5
	151	2019-03-05	177913.95	2
	148	2019-03-05	156251.03	1
	323	2019-03-05	154622.08	1
	131	2019-03-05	149085.15	0

```
/*21*/
```

```
Drop table TopCustomers;
```