

### 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 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

```
/*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

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

	productname	Profit
▶	1969 Harley Davidson Ultimate Chopper	115.72

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```
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

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```
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

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```
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

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```
select employeenumber,lastname,firstname from employees where reportsto is null;
```

	employeenumber	lastname	firstname
▶	1002	Murphy	Diane

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```
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

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```
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

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```
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

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```
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
	Schuylar Imports
	Asian Treasures, Inc.
	SAR Distributors, Co
	Lisboa Souveniers, Inc
	Precious Collectables
	Anton Designs, Ltd.
	Kremlin Collectables, Co.
	Raanan Stores, Inc

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```
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

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```
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`)
)
```

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```
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;
```

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```
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

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```
alter table TopCustomers add OrderCount int;
```

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```
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;
```