**Mysql command**

|  |
| --- |
|  |

Select Command

|  |
| --- |
| select customerNumber, customerName from customers; |

|  |
| --- |
| select \* from customers; |

|  |
| --- |
| select employeeNumber, officeCode from employees; |

|  |
| --- |
| select \* from employees; |

select city, state, country from offices;

|  |
| --- |
| select territory,addressLine1 from offices; |

select orderNumber, productCode from orderdetails;

|  |
| --- |
| select productCode, orderLineNumber from orderdetails; |

|  |
| --- |
| select customerNumber,amount from payments; |

|  |
| --- |
| select productCode,MSRP,buyPrice from products;lect productCode,MSRP,buyPrice from products; |

|  |
| --- |
| select \* from customers; |

|  |
| --- |
| select customerNumber,customerName,salesRepEmployeeNumber from customers; |

|  |
| --- |
| select addressLine1,country,postalCode from customers; |

|  |
| --- |
| select \* from employees; |

|  |
| --- |
| SELECT lastname, firstname, jobtitle FROM employees; |

|  |
| --- |
| select employeeNumber, extension, email from employees; |

|  |
| --- |
| select \* from orders; |

|  |
| --- |
| select orderNumber,orderDate,requiredDate from orders; |

|  |
| --- |
| select customerNumber,checkNumber,paymentDate from payments; |

|  |
| --- |
| select productLine, htmlDescription,image from productlines; |

[**SELECT DISTINCT**](http://www.mysqltutorial.org/mysql-distinct.aspx)

|  |
| --- |
| SELECT DISTINCT country, state from customers; |

|  |
| --- |
| SELECT DISTINCT \* from customers; |

|  |
| --- |
| SELECT DISTINCT \* from payments; |

|  |
| --- |
| Select distinct customerName, country, state from customers; |

|  |
| --- |
| select distinct productCode, productLine, buyPrice from products where buyPrice <'1000'; |

|  |
| --- |
| Select \* from payments; |

|  |
| --- |
| select distinct productCode, productName from products; |

|  |
| --- |
| select distinct customerNumber, state, country from customers where customerNumber >'300'; |

|  |
| --- |
| select distinct customerNumber, state, country from customers where customerNumber= 496; |

|  |
| --- |
| **select distinct state from customers where country= 'usa';** |

|  |
| --- |
| **select distinct employeeNumber,lastName,firstName from employees;** |

|  |
| --- |
| **select distinct employeeNumber,lastName,firstName from employees order by lastName;** |

|  |
| --- |
| **select distinct customerNumber,checkNumber,paymentDate from payments;** |

|  |
| --- |
| **select distinct productLine, textDescription, htmlDescription from productlines where textdescription is not null limit 10;** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **select distinct officeCode,city,territory from offices order by city desc;**   |  | | --- | | **describe customers;** |  |  | | --- | | **select distinct country from customers;** |  |  | | --- | | **select distinct contactLastName,contactFirstName,phone from customers;** |  |  | | --- | | **select distinct salesRepEmployeeNumber,creditLimit,city from customers;** | |

**[ORDER BY](http://www.mysqltutorial.org/mysql-order-by/)**

|  |
| --- |
| select distinct customerNumber, state, country from customers order by customerNumber; |

|  |
| --- |
| select distinct customerNumber, state, country from customers order by customerNumber desc; |

|  |
| --- |
| Select customerNumber,amount from payments order by amount; |

select customerNumber,amount from payments order by amount desc;

|  |
| --- |
| select customerNumber, paymentDate, amount from payments order by paymentDate; |

|  |
| --- |
| select orderNumber,orderDate,status from orders order by orderNumber; |

|  |
| --- |
| select orderNumber,orderDate,status from orders order by orderNumber desc; |

|  |
| --- |
| select orderNumber,orderDate,status from orders order by status desc; |

|  |
| --- |
| select productLine, textDescription from productlines order by productLine; |

select officeCode officeCode, city, country from offices order by city desc;

|  |
| --- |
| **select distinct officeCode,city,territory from offices order by city desc;** |

|  |
| --- |
| **select distinct officeCode,city,territory from offices order by officeCode;** |

|  |
| --- |
| **select distinct officeCode,city,territory from offices order by officeCode, city desc;** |

|  |
| --- |
| **select customerName,contactLastName,city from customers orderby;** |

|  |
| --- |
| **select customerName,contactLastName,city from customers order by customerName;** |

|  |
| --- |
| **select customerName,contactLastName,city from customers order by customerName, city desc;** |

|  |
| --- |
| **select employeeNumber,firstName,jobTitle from employees orderby;** |

|  |
| --- |
| **select customerName,postalcode,country from customers order by country,customerName desc;** |

|  |
| --- |
| **select orderNumber,productCode,priceEach from orderdetails order by priceEach desc limit 20;** |

[**WHERE**](http://www.mysqltutorial.org/mysql-where/)

|  |
| --- |
| select customerNumber, customerName,state from customers where customernumber = 496 |

|  |
| --- |
| select customerNumber, customerName,state from customers where customernumber < '300' |

|  |
| --- |
| select customerNumber, customerName,state from customers where state ='ca'; |

|  |
| --- |
| select customerNumber,amount from payments where amount>'300'; |

|  |
| --- |
| select productCode, buyPrice from products where buyPrice<'300'; |

|  |
| --- |
| select employeeNumber, jobTitle, officeCode from employees where jobTitle= 'President'; |

|  |
| --- |
| select employeeNumber, jobTitle, officeCode from employees where jobTitle<>' Sales Rep'; |

|  |
| --- |
| select employeeNumber, jobTitle, officeCode from employees where officecode <= 4; |

|  |
| --- |
| **select customerName,contactLastName,city from customers where city='Milan';** |

|  |
| --- |
| **select customerName,contactLastName,city, salesRepEmployeeNumber from customers where contactLastName='Snowden';** |

|  |
| --- |
| **select customerName,contactLastName,city,creditlimit from customers where creditlimit >'6000';** |

|  |
| --- |
| **SELECT lastname, firstname, jobtitle FROM employees WHERE jobtitle = 'Sales Rep';** |

|  |
| --- |
| **select extension,lastName,firstName,jobTitle from employees where extension='x101';** |

|  |
| --- |
| **select extension,lastName,firstName,jobTitle,officeCode from employees where jobTitle='Sales Rep ' and officeCode='7';** |

|  |
| --- |
| **select customerNumber,checkNumber,paymentDate from payments where paymentDate='2004-02-13';** |

|  |
| --- |
| **select orderDate,shippedDate,status,customerNumber from orders where shippedDate is null;** |

|  |
| --- |
| **select productCode,productName,buyPrice,MSRP from products where buyprice <'30';** |

|  |
| --- |
| **select productCode,productName,buyPrice,MSRP from products where productName='1939 Chevrolet Deluxe Coupe';** |

And

select employeeNumber, jobTitle, officeCode from employees where officecode <= 4 and jobTitle='Sales Rep'

select customernumber, state, city from customers where customernumber <'300' and state= 'ca';

select orderNumber, status,customerNumber from orders where customerNumber<'200' and status= 'Shipped'

|  |
| --- |
| select customerNumber,state from customers where state ='ca'and customerNumber='475'; |

|  |
| --- |
| select employeeNumber ,extension,jobTitle from employees where jobTitle ='Sales Rep' and employeeNumber>'1000'; |

|  |
| --- |
| select customerNumber, state,country,creditLimit from customers where customerNumber<'300'and state ='ca' and creditLimit>'50000' |

|  |
| --- |
| select customerNumber, state,country,creditLimit from customers where customerNumber<'300'and state ='ca' and creditLimit='64600.00'; |

|  |
| --- |
| select customerNumber, state,country,creditLimit from customers where customerNumber<'300'and country='france'; |

|  |
| --- |
| select customerNumber, state,country,creditLimit from customers where customerNumber<>'300' and country='usa'; |

|  |
| --- |
| select employeeNumber ,extension,jobTitle from employees where jobTitle ='Sales Rep' and employeeNumber IS NOT NULL; |

|  |
| --- |
| **select customerName,phone,city,state from customers where city='nyc' and state='ny';** |

|  |
| --- |
| **select contactLastName,contactFirstName,city,creditLimit from customers where city='nyc' and creditLimit>'500';** |

|  |
| --- |
| **select extension,lastName,firstName,jobTitle,officeCode from employees where jobTitle='Sales Rep ' and officeCode='7';** |

|  |
| --- |
| **select lastName,firstName,email from employees where firstName='Andy' and email='afixter@classicmodelcars.com';** |

|  |
| --- |
| **select customerNumber,orderNumber,status from orders where customerNumber='398' and orderNumber='10408';** |

**OR**

|  |
| --- |
| select customerNumber, state,country,creditLimit from customers where customerNumber<'300'and country='france' or country='USA'; |

|  |
| --- |
| select customerNumber, state,country,creditLimit from customers where customerNumber<'300'and country='france' or country='USA' and state='ca' or state ='ma'; |

|  |
| --- |
| select country,state,city,creditLimit from customers where country='usa' and state='ca' or state ='ma'; |

|  |
| --- |
| select country,state,city,creditLimit from customers where country='usa' and state='ca' or city='Burbank' or city='Brisbane'; |

`

|  |
| --- |
| **SELECT customername, country FROM customers WHERE country = 'USA' OR country = 'France';** |

|  |
| --- |
| **select customerNumber,contactFirstName,creditLimit from customers where contactFirstName='Carmen' or contactFirstName='Sue';** |

|  |
| --- |
| **select customerNumber,contactFirstName,creditLimit from customers where contactFirstName='Carmen' or contactFirstName='Sue' and creditLimit>'500';** |

|  |
| --- |
| **select customerNumber,checkNumber,paymentDate from payments where customerNumber='475' or customerNumber<>'300';** |

|  |
| --- |
| **select orderDate,customerNumber,shippedDate from orders where shippedDate='2005-05-12' or shippedDate is null;** |

**IN**

|  |
| --- |
| select country,state,city,creditLimit from customers where country in ('usa','france') |

|  |
| --- |
| select country,state,city,creditLimit from customers where country not in ('usa','france') |

|  |
| --- |
| select orderNumber,customerNumber,status, shippedDate FROM orders WHERE orderNumber IN( SELECT orderNumber FROM orderDetails GROUP BY orderNumber); |

|  |
| --- |
| select customerNumber,state,country from customers where state in ('ca','pa'); |

|  |
| --- |
| **select customerNumber,contactLastName,country from customers where country in ('usa','italy');** |

|  |
| --- |
| **select customerNumber,contactLastName,country from customers where country not in ('usa','italy');** |

|  |
| --- |
| **select employeeNumber,firstName,jobTitle from employees where jobTitle in(select jobTitle ='Sales Rep ' from employees);** |

|  |
| --- |
| **select orderNumber,requiredDate,status from orders where ordernumber in (10410,10419,10424);** |

|  |
| --- |
| **select orderNumber,quantityOrdered,priceEach from orderdetails where quantityOrdered in (49,26,38,28,55) and priceEach>'40';** |

**Between**

|  |
| --- |
| select customerNumber,state,country from customers where customerNumber between 100 and 400 |

|  |
| --- |
| select customerNumber,state,country from customers where customerNumber not between 100 and 30 |

|  |
| --- |
| select productCode, productName,buyPrice from products where buyPrice >=100 and buyPrice <=400; |

|  |
| --- |
| select productCode, productName,buyPrice from products where buyPrice not between 300 and 500; |

|  |
| --- |
| select employeeNumber, extension officeCode from employees where officeCode between 4 and 6 |

|  |
| --- |
| select employeeNumber, extension officeCode from employees where officeCode not between 4 and 6 |

|  |
| --- |
| **select orderNumber,orderDate,customerNumber from orders where customerNumber between 150 and 250;** |

|  |
| --- |
| **select orderNumber,orderDate,shippedDate from orders where orderNumber between 10385 and 10425;** |

|  |
| --- |
| **select productCode,priceEach,quantityOrdered from orderdetails where priceEach between 50 and 200;** |

|  |
| --- |
| **select customerNumber,checkNumber,amount from payments where customerNumber between 400 and 450;** |

|  |
| --- |
| **select productLine,buyPrice,MSRP from products where buyPrice between 24.23 and 53.63;** |

**Like**

|  |
| --- |
| select customerName, state,country,creditLimit from customers where customerName like 'a%' |

|  |
| --- |
| select customerName, state,country,creditLimit from customers where customerName like 'a%' and country= 'usa' |

|  |
| --- |
| select customerName, state,country,creditLimit from customers where customerName like 'a%' and country= 'usa' order by customerName; |

|  |
| --- |
| select customerName, state,country,creditLimit from customers where customerName like 'a%' and creditLimit <'4000'; |

|  |
| --- |
| select customerName, state,country,creditLimit from customers where customerName like 'a%' and creditLimit <'4000' and country='usa'; |

|  |
| --- |
| **select customerName,contactFirstName,city from customers where contactFirstName like 'a%';** |

|  |
| --- |
| **select customerName,contactFirstName,city from customers where city like 'm%';** |

|  |
| --- |
| **select jobTitle,lastName,firstName from employees where jobTitle like 'Sales Rep%';** |

|  |
| --- |
| **select customerNumber,paymentDate,amount from payments where amount between 2000 and 4000;** |

|  |
| --- |
| **select customerNumber,paymentDate,amount from payments where amount between 2000 and 4000 limit 5;** |

Limit

|  |
| --- |
| select customerName, state,country,creditLimit from customers where customerName like 'a%' limit 4; |

|  |
| --- |
| select customerName, state,country,creditLimit from customers where customerName like 'a%' order by customerName desc limit 5; |

|  |
| --- |
| select customerName, state,country,creditLimit from customers where creditLimit >'3000' and country='usa' limit 6; |

|  |
| --- |
| select customerName, state,country,creditLimit from customers where creditLimit >'3000' and country='usa' order by customerName limit 6; |

**Inner Join**

|  |
| --- |
| select customername, country, creditlimit, amount from customers inner join payments using ( customernumber) limit 10 |

|  |
| --- |
| select country, state, orderdate from customers inner join orders using (customernumber) |

**# Is Null:**

|  |
| --- |
| **select customerName,state,salesRepEmployeeNumber from customers where state is null;** |

|  |
| --- |
| **select lastName,officeCode,reportsTo from employees where officeCode is not null;** |

|  |
| --- |
| **SELECT customerNumber, salesRepEmployeeNumber FROM customers WHERE salesRepEmployeeNumber = 110 OR salesRepEmployeeNumber IS NULL;** |

|  |
| --- |
| **select orderNumber,shippedDate,customerNumber from orders where shippedDate is null;** |

|  |
| --- |
| **select orderNumber,quantityOrdered,productCode from orderdetails where quantityOrdered is not null;** |

**# Table & Column Aliases:**

|  |
| --- |
| **select concat (contactLastName,contactFirstName) as `Full Name` from customers;** |

|  |
| --- |
| **select concat (contactLastName,contactFirstName) as `Full Name` from customers order by contactLastName limit 7;** |

|  |
| --- |
| **select customerNumber,paymentDate,amount from payments where amount >'5000';** |

|  |
| --- |
| **SELECT customerName, COUNT(o.orderNumber) total FROM customers c INNER JOIN orders o ON c.customerNumber = o.customerNumber GROUP BY customerName ORDER BY total DESC;SELECT customerName, COUNT(o.orderNumber) total FROM customers c INNER JOIN orders o ON c.customerNumber = o.customerNumber GROUP BY customerName ORDER BY total DESC;** |

**# Joins:**

|  |
| --- |
| **select productName,productScale,productCode from products inner join orderdetails using (productcode) order by productCode;** |

|  |
| --- |
| **select customerNumber,customerName,city from customers inner join payments using (customerNumber) order by customerName;** |

|  |
| --- |
| **select productLine,productname,productscale from productlines inner join products using (productLine) order by productname limit 10;** |

|  |
| --- |
| **select orderNumber orderDate,status from orders inner join orderdetails using (orderNumber) limit 100;** |

|  |
| --- |
| **select orderNumber,productName priceEach,MSRP from products p inner join orderdetails o on p.productCode=o.productCode and p.MSRP>o.priceEach;** |

|  |
| --- |
| **select customerName,addressLine1,city,checknumber from customers left join payments using (customerNumber);** |

|  |
| --- |
| **select customerName,addressLine1,city,checknumber from customers left join payments using (customerNumber) where city='Boston';** |

|  |
| --- |
| **select productName,priceEach,buyPrice,MSRP,orderlinenumber from products left join orderdetails using (productCode);** |

|  |
| --- |
| **select productName,priceEach,buyPrice,MSRP,orderlinenumber from products left join orderdetails using (productCode) where priceEach>50 limit 50;** |

|  |
| --- |
| **select productCode,productName,buyPrice,image from products left join productlines using (productLine) where productCode is not null;** |

|  |
| --- |
| **select customerName, concat (city) as c, state, checknumber from customers right join payments using (customerNumber);** |

|  |
| --- |
| **select customerName, concat (city) as c, state, checknumber from customers right join payments using (customerNumber) limit 10;** |

|  |
| --- |
| **select productName,productLine,priceeach,MSRP from products right join orderdetails using (productCode);** |

|  |
| --- |
| **select productName,productLine,priceeach,MSRP from products right join orderdetails using (productCode) where productLine='Classic Cars' limit 10;** |

|  |
| --- |
| **select orderDate,shippedDate,status,priceeach from orders right join orderdetails using (orderNumber) where orderDate is not null and status='shipped' limit 10;** |

|  |
| --- |
| **select concat (m.lastname,',', m.firstname) as 'manager', concat(e.lastname,',', e.firstname)as 'direct report' FROM employees e INNER JOIN employees m ON m.employeeNumber = e.reportsto ORDER BY manager;** |

**# Group by:**

|  |
| --- |
| **select customerNumber,customerName,city,postalCode from customers group by postalCode,city,customerName, customerNumber;** |

|  |
| --- |
| **select orderDate,shippedDate,status,productcode from orders inner join orderdetails using (orderNumber) group by orderDate,status,shippedDate,productcode;** |

|  |
| --- |
| **SELECT YEAR(orderDate) AS year, SUM(quantityOrdered \* priceEach) AS total FROM orders INNER JOIN orderdetails USING (orderNumber) WHERE status = 'in process' GROUP BY year HAVING year > 2005;** |

|  |
| --- |
| **select productCode, priceEach,status from orderdetails left join orders using (orderNumber) group by status,priceEach,productCode;** |

|  |
| --- |
| **select productLine,textDescription from productlines group by textDescription,productLine;** |

**# Having:**

|  |
| --- |
| **select orderNumber, sum(quantityOrdered) as itemscount, sum(priceEach\*quantityOrdered) as total from orderdetails group by orderNumber having total > 1000 and itemscount > 600 limit 10;** |

|  |
| --- |
| **select orderNumber,status,customerNumber from orders having orderNumber >10000 limit 50;** |

|  |
| --- |
| **select a.orderNumber,status, sum(priceEach\*quantityOrdered) total from orderdetails a inner join orders b on a.orderNumber=b.orderNumber group by orderNumber,status having status='shipped' and total > 1500;** |

|  |
| --- |
| **select customerNumber,customerName,city from customers having customerNumber > 400;** |

|  |
| --- |
| **select employeeNumber,lastName,extension from employees having lastName ='Bow';** |

**# Roll Up:**

|  |
| --- |
| **select orderNumber,orderDate,status from orders group by orderDate,orderNumber,status with rollup;** |

|  |
| --- |
| **select orderDate,shippedDate,status,productcode from orders inner join orderdetails using (orderNumber) group by orderDate,status,shippedDate,productcode with rollup;** |

|  |
| --- |
| **select contactLastName,phone,city from customers group by phone,city,contactLastName with rollup;** |

|  |
| --- |
| **select customerName,city,state,checknumber from customers left join payments using (customerNumber) group by customerName,city,checknumber,state with rollup;** |

|  |
| --- |
| **select customerName,city,state,checknumber from customers inner join payments using (customerNumber) group by customerName,city,checknumber,state with rollup;** |

**# Subquery:**

|  |
| --- |
| **select lastName,firstName from employees where officeCode in (select officecode from offices where country = 'usa');** |