

MySQL ORDER BY Clause

- 1) List the Product Code, Product Name and Buy Price in 'products' table in descending order of the 'buyPrice'

S10_4962	1962 LanciaA Delta 16V	103.42
S18_2238	1998 Chrysler Plymouth Prowler	101.51
S10_1949	1952 Alpine Renault 1300	98.58
S24_3856	1956 Porsche 356A Coupe	98.30
S12_1108	2001 Ferrari Enzo	95.59
S12_1099	1968 Ford Mustang	95.34
S18_1984	1995 Honda Civic	93.89
S18_4027	1970 Triumph Spitfire	91.92
S10_4698	2003 Harley-Davidson Eagle Drag Bike	91.02
S12_3148	1969 Corvair Monza	89.14
S18_1749	1917 Grand Touring Sedan	86.70
S10_4757	1972 Alfa Romeo GTA	85.68
S18_4600	1940s Ford truck	84.76
S18_1129	1993 Mazda RX-7	83.51
S12_3891	1969 Ford Falcon	83.05

- 2) List the country, state and customerName in order of country, and then state within state the name of customers should be descending order from 'customers' table.

Australia	NSW	Souvenirs And Things Co.
Australia	NSW	Anna's Decorations, Ltd
Australia	Queensland	Australian Gift Network, Co
Australia	Victoria	Australian Collectors, Co.
Australia	Victoria	Australian Collectables, Ltd
Austria	NULL	Salzburg Collectables
Austria	NULL	Mini Auto Werke
Belgium	NULL	Royale Belge
Belgium	NULL	Petit Auto
Canada	BC	Royal Canadian Collectables, Ltd.
Canada	BC	Canadian Gift Exchange Network
Canada	Québec	Québec Home Shopping Network
Denmark	NULL	Heintze Collectables
Denmark	NULL	Danish Wholesale Imports
Finland	NULL	Toys of Finland, Co.
Finland	NULL	Suominen Souvenirs
Finland	NULL	Oulu Toy Supplies, Inc.
France	NULL	Saveley & Henriot, Co.
France	NULL	Reims Collectables
France	NULL	Mini Caravy
France	NULL	Marseille Mini Autos
France	NULL	Lyon Souvenirs
France	NULL	La Rochelle Gifts
France	NULL	La Corne D'abondance, Co.

France	NULL	Daedalus Designs Imports
France	NULL	Auto Canal+ Petit
France	NULL	Auto Associés & Cie.
France	NULL	Atelier graphique
France	NULL	Alpha Cognac
Germany	NULL	Warburg Exchange
Germany	NULL	Toms Spezialitäten, Ltd
Germany	NULL	Stuttgart Collectable Exchange
Germany	NULL	Natürlich Autos
Germany	NULL	Mit Vergnügen & Co.
Germany	NULL	Messner Shopping Network
Germany	NULL	Kommission Auto
Germany	NULL	Franken Gifts, Co
Germany	NULL	Feuer Online Stores, Inc
Germany	NULL	Der Hund Imports
Germany	NULL	Cramer Spezialitäten, Ltd
Germany	NULL	Blauer See Auto, Co.
Germany	NULL	Bavarian Collectables Imports, Co.
Hong Kong	NULL	King Kong Collectables, Co.
Ireland	NULL	Clover Collections, Co.
Ireland	Co. Cork	Asian Treasures, Inc.
Israel	NULL	Raanan Stores, Inc
Italy	NULL	Rovelli Gifts
Italy	NULL	L'ordine Souvenirs
Italy	NULL	Frau da Collezione
Italy	NULL	Amica Models & Co.
Japan	Osaka	Osaka Souvenirs Co.
Japan	Tokyo	Tokyo Collectables, Ltd
Netherlands	NULL	Schuyler Imports
New Zealand	NULL	Kelly's Gift Shop
New Zealand	NULL	GiftsForHim.com
New Zealand	NULL	Extreme Desk Decorations, Ltd
New Zealand	NULL	Down Under Souvenirs, Inc
Norway	NULL	Norway Gifts By Mail, Co.
Norway	NULL	Herkku Gifts
Norway	NULL	Baane Mini Imports

- 3) List the productName and TotalAmount of products from the 'products' table in descending order. (Total Amount is product of Stock of Product multiplied by Buy Price of the product.)

productName	TotalAmount
1995 Honda Civic	917493.08
1952 Alpine Renault 1300	720126.90
1962 LanciaA Delta 16V	702325.22
1968 Dodge Charger	685684.68
1976 Ford Gran Torino	670743.23
America West Airlines B757-200	664126.40
2002 Suzuki XREO	662501.19
1992 Ferrari 360 Spider red	650231.30

1956 Porsche 356A Coupe	648780.00
1964 Mercedes Tour Bus	618193.88
1969 Corvair Monza	615600.84
1965 Aston Martin DB5	596410.32
2002 Chevy Corvette	586691.06
1948 Porsche Type 356 Roadster	558818.40
1932 Model A Ford J-Coupe	547021.92
1937 Lincoln Berline	526969.66
1970 Triumph Spitfire	509696.40
2003 Harley-Davidson Eagle Drag Bike	508073.64
1998 Chrysler Plymouth Prowler	479533.24
1948 Porsche 356-A Roadster	475721.40
1999 Indy 500 Monte Carlo SS	463388.64
1992 Porsche Cayenne Turbo Silver	459291.96
1996 Moto Guzzi 1100i	457058.75
1917 Maxwell Touring Car	455314.02
1985 Toyota Supra	440858.33
1904 Buick Runabout	436551.40
Collectable Wooden Train	435762.00

MySQL WHERE Clause

- 4) Find First Name, Last Name, JobTitle and Extension number of employees who have extension number 'x102'

lastName	jobTitle	extension	firstName	
Jones	Sales Rep	x102	Barry	
Marsh	Sales Rep	x102	Peter	
Kato	Sales Rep	x102	Yoshimi	

- 5) Find first name and last name of customers whose customer number is less than 200 and is from New York state

customerNumber	contactFirstName	contactLastName	state
131	Kwai	Lee	NY
151	Jeff	Young	NY
181	Michael	Frick	NY

- 6) Find first name and last name of customers whose customer number is less than 200 and is from New York state or Norway country.

customerNumber	contactFirstName	contactLastName	state	country
121	Jonas	Bergulfsen	NULL	Norway
131	Kwai	Lee	NY	USA
151	Jeff	Young	NY	USA

167	Veysel	Oeztan	NULL	Norway
181	Michael	Frick	NY	USA
299	Jan	Klaeboe	NULL	Norway

- 7) Find the orderNumber and orderAmount of all orders above \$10000;

orderNumber	orderAmount
10312	10286.40
10403	11503.14
10404	10460.16
10405	11170.52
10407	10723.60
10424	10072.00

- 8) Find the contactFirstName, contactLastName, phone, city and state of all customers from state of New York or California.

Susan	Nelson	4155551450	San Rafael	CA
Julie	Murphy	6505555787	San Francisco	CA
Kwai	Lee	2125557818	NYC	NY
Jeff	Young	2125557413	NYC	NY
Juri	Hashimoto	6505556809	Burlingame	CA
Michael	Frick	2125551500	NYC	NY
Julie	Young	6265557265	Pasadena	CA
Mary	Young	3105552373	Glendale	CA
Valarie	Thompson	7605558146	San Diego	CA
Steve	Frick	9145554562	White Plains	NY
Julie	Brown	6505551386	San Francisco	CA
Brian	Chandler	2155554369	Los Angeles	CA
Maria	Hernandez	2125558493	NYC	NY
Sue	Frick	4085553659	San Jose	CA
Yu	Choi	2125551957	NYC	NY
Steve	Thompson	3105553722	Burbank	CA
Sue	Taylor	4155554312	Brisbane	CA

- 9) Repeat the above query by sorting in by state in ascending order and then by city in descending order.

Susan	Nelson	4155551450	San Rafael	CA
Sue	Frick	4085553659	San Jose	CA
Julie	Murphy	6505555787	San Francisco	CA
Julie	Brown	6505551386	San Francisco	CA
Valarie	Thompson	7605558146	San Diego	CA
Julie	Young	6265557265	Pasadena	CA
Brian	Chandler	2155554369	Los Angeles	CA

Mary	Young	3105552373	Glendale	CA
Juri	Hashimoto	6505556809	Burlingame	CA
Steve	Thompson	3105553722	Burbank	CA
Sue	Taylor	4155554312	Brisbane	CA
Steve	Frick	9145554562	White Plains	NY
Kwai	Lee	2125557818	NYC	NY
Jeff	Young	2125557413	NYC	NY
Michael	Frick	2125551500	NYC	NY
Maria	Hernandez	2125558493	NYC	NY
Yu	Choi	2125551957	NYC	NY

10) Find all order details in which the quantity ordered in between 22 and 25.

10100	S18_4409	22	75.46	4
10101	S18_2325	25	108.06	4
10103	S18_2432	22	58.34	2
10103	S18_3136	25	86.92	13
10103	S24_4258	25	88.62	15
10104	S18_2238	24	135.90	8
10104	S18_3232	23	165.95	13
10105	S18_3140	22	136.59	11
10105	S700_3962	22	99.31	7
10105	S72_3212	25	44.77	8
10107	S24_1578	25	96.92	3
10112	S18_2949	23	85.10	2
10113	S32_3522	23	58.82	1
10114	S24_2840	24	28.64	1
10117	S18_4027	22	122.08	12
10117	S18_4522	23	73.73	4
10119	S700_1138	25	57.34	14
10120	S32_1374	22	94.90	6
10120	S700_2466	24	81.77	15
10120	S700_2834	24	106.79	7
10121	S32_4485	25	95.93	3

There are total 324 rows in the answer.

11) Find all payments made in which the amount is between 10000 and 13000.

124	CQ287967	2003-04-11	11044.30
128	DI925118	2003-01-28	10549.01
161	KG644125	2005-02-02	12692.19
167	ED743615	2004-09-19	12538.01
173	GP545698	2004-05-13	11843.45
242	HR224331	2005-06-03	12432.32
363	IS232033	2003-01-16	10223.83
379	GB890854	2004-08-02	12530.51
381	BC726082	2004-12-03	12081.52
406	BJMPR4545	2005-04-23	12190.85

487	PT550181	2004-02-29	12573.28
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12) Repeat the above query and sort the result by paymentDate.

363	IS232033	2003-01-16	10223.83
128	DI925118	2003-01-28	10549.01
124	CQ287967	2003-04-11	11044.30
487	PT550181	2004-02-29	12573.28
173	GP545698	2004-05-13	11843.45
379	GB890854	2004-08-02	12530.51
167	ED743615	2004-09-19	12538.01
381	BC726082	2004-12-03	12081.52
161	KG644125	2005-02-02	12692.19
406	BJMPR4545	2005-04-23	12190.85
242	HR224331	2005-06-03	12432.32

MySQL LIKE Clause

13) List customerNumber, contactFirstName, contactLastName, phone of all customers whose name starts with 'W'

customerNumber	contactFirstName	contactLastName	phone
166	Wendy	Victorino	+65 224 1555
320	Wing	Huang	5085559555
328	William	Brown	2015559350
357	Wales	MacKinlay	64-9-3763555

14) List customerNumber, contactFirstName, contactLastName, phone of all customers whose name ends with 'a'

customerNumber	contactFirstName	contactLastName	phone
276	Anna	O'Hara	02 9936 8555
286	Marta	Hernandez	6175558555
339	Francisca	Cervantes	2155554695
424	Maria	Hernandez	2125558493
448	Martha	Larsson	0695-34 6555
462	Violeta	Benitez	5085552555
486	Rosa	Salazar	2155559857

15) List customerNumber, contactFirstName, contactLastName, phone of all customers whose name contains 'ea'

customerNumber	contactFirstName	contactLastName	phone
112	Jean	King	7025551838
189	Dean	Cassidy	+353 1862 1555
233	Jean	Fresnière	(514) 555-8054
471	Sean	Clenahan	61-9-3844-6555

- 16) List customerNumber, contactFirstName, contactLastName, phone of all customers whose name has 't' as third character.

customerNumber	contactFirstName	contactLastName	phone
114	Peter	Ferguson	03 9520 4555
145	Jytte	Petersen	31 12 3555
186	Matti	Karttunen	90-224 8555
273	Peter	Franken	089-0877555
314	Catherine	Dewey	(02) 5554 67
348	Patricia	McKenna	2967 555
409	Rita	Müller	0711-555361

- 17) List customerNumber, contactFirstName, contactLastName, phone of all customers whose name as 't' as third character and ends with 'e'

customerNumber	contactFirstName	contactLastName	Phone
145	Jytte	Petersen	31 12 3555
314	Catherine	Dewey	(02) 5554 67

- 18) List productCode, productName of all products whose productCode contains '12_1'

productCode	productName
S12_1099	1968 Ford Mustang
S12_1108	2001 Ferrari Enzo
S12_1666	1958 Setra Bus

MySQL DISTINCT Clause

- 19) Select the distinct customer numbers from payments table who have made any payment.

customerNumber
103
112
114
119
121
124
128
129
131
141
144
145

There should be total 98 rows in the result

20) List all distinct cities from France which have customers in the customers table.

city
Nantes
Lyon
Lille
Paris
Strasbourg
Toulouse
Versailles
Marseille
Reims

21) List all distinct cities from France which have customers in the customers table and the result should be arranged alphabetically.

city
Lille
Lyon
Marseille
Nantes
Paris
Reims
Strasbourg
Toulouse
Versailles

22) Count from how many cities of France, we have customers from, in the customers table.

COUNT(DISTINCT city)
9

23) Count from how many cities of France, we have customers from, in the customers table and rename the column as "No of Cities"

No of Cities
9

24) Write a query to find out number of sales representatives in the company as "No of Sales Representative"

No of Sales Representative
17

25) Write a query to find different productLines available in the products table sorted in ascending order.

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

MySQL LIMIT Clause

26) Write a query to list top 5 payments from payments table

customerNumber	checkNumber	paymentDate	amount
141	JE105477	2005-03-18	120166.58
141	ID10962	2004-12-31	116208.40
124	KI131716	2003-08-15	111654.40
148	KM172879	2003-12-26	105743.00
124	AE215433	2005-03-05	101244.59

27) Write a query to list top 3 payments from payments table whose check number start with alphabet M

customerNumber	checkNumber	paymentDate	amount
114	MA765515	2004-12-15	82261.22
320	MU817160	2003-11-24	52548.49
496	MN89921	2004-12-31	52166.00

MySQL IS NULL Clause

28) Find all offices details in which the state is null.

officeCode	city	phone	addressLine1	addressLine2	state	country	postalCode	Territory
4	Paris	+33 14 723 4404	43 Rue Jouffroy D'abbans	Null	null	France	75017	EMEA
6	Sydney	+61 2 9264 2451	5-11 Wentworth Avenue	Floor #2	null	Australia	NSW 2010	APAC
7	London	+44 20 7877 2041	25 Old Broad Street	Level 7	null	UK	EC2N 1HN	EMEA

MySQL IN Clause

- 29) Find first name, last name, contact number, and country of all customers from Poland, Denmark, Sweden and Spain.

contactFirstName	contactLastName	Phone	country
Jytte	Petersen	31 12 3555	Denmark
Palle	Ibsen	86 21 3555	Denmark
Zbyszek	Piestrzeniewicz	(26) 642-7555	Poland
Diego	Freyre	(91) 555 94 44	Spain
Eduardo	Saavedra	(93) 203 4555	Spain
Alejandra	Camino	(91) 745 6555	Spain
Jesus	Fernandez	+34 913 728 555	Spain
Martín	Sommer	(91) 555 22 82	Spain
Carmen	Anton	+34 913 728555	Spain
José Pedro	Roel	(95) 555 82 82	Spain
Christina	Berglund	0921-12 3555	Sweden
Martha	Larsson	0695-34 6555	Sweden

- 30) Find first name, last name, contact number, and country of all customers from all countries whose name starts with S.

contactFirstName	contactLastName	Phone	country
Eric	Natividad	+65 221 7555	Singapore
Wendy	Victorino	+65 224 1555	Singapore
Brydey	Walker	+612 9411 1555	Singapore
Armand	Kuger	+27 21 550 3555	South Africa
Diego	Freyre	(91) 555 94 44	Spain
Eduardo	Saavedra	(93) 203 4555	Spain
Alejandra	Camino	(91) 745 6555	Spain
Jesus	Fernandez	+34 913 728 555	Spain
Martín	Sommer	(91) 555 22 82	Spain
Carmen	Anton	+34 913 728555	Spain
José Pedro	Roel	(95) 555 82 82	Spain
Christina	Berglund	0921-12 3555	Sweden
Martha	Larsson	0695-34 6555	Sweden
Ed	Harrison	+41 26 425 50 01	Switzerland
Mihael	Holz	0897-034555	Switzerland
Braun	Urs	0452-076555	Switzerland

- 31) Find first name, last name, contact number, state, and country of all customers from all countries whose name starts with S and state is also mentioned(i.e. state is not null).

contactFirstName	contactLastName	Phone	state	country
Armand	Kuger	+27 21 550 3555	Pretoria	South Africa

32) Find first name, last name, contact number, state, and country of all customers from all countries where the company has offices.

contactFirstName	contactLastName	Phone	state	country
Jean	King	7025551838	NV	USA
Susan	Nelson	4155551450	CA	USA
Julie	Murphy	6505555787	CA	USA
Kwai	Lee	2125557818	NY	USA
Valarie	Franco	6175552555	MA	USA
Carine	Schmitt	40.32.2555	null	France
Daniel	Tonini	30.59.8555	null	France
Laurence	Lebihan	91.24.4555	null	France
Paul	Henriot	26.47.1555	null	France
Dominique	Perrier	(1) 47.55.6555	null	France
Mory	Kentary	+81 06 6342 5555	Osaka	Japan
Akiko	Shimamura	+81 3 3584 0555	Tokyo	Japan
Adrian	Huxley	+61 2 9495 8555	NSW	Australia
Ben	Calaghan	61-7-3844-6555	Queensland	Australia
Sean	Clenahan	61-9-3844-6555	Victoria	Australia
Rachel	Ashworth	(171) 555-1555	null	UK
Elizabeth	Devon	(171) 555-2282	null	UK
Helen	Bennett	(198) 555-8888	Isle of Wight	UK

Total 60 Rows in result of this query

33) Find first name, last name, contact number, state, and country of all customers from all countries where the company does not have any offices.

contactFirstName	contactLastName	phone	state	country
Jonas	Bergulfsen	07-98 9555	null	Norway
Zbyszek	Piestrzeniewicz	(26) 642-7555	null	Poland
Roland	Keitel	+49 69 66 90 2555	null	Germany
Diego	Freyre	(91) 555 94 44	null	Spain
Christina	Berglund	0921-12 3555	null	Sweden
Jytte	Petersen	31 12 3555	null	Denmark
Eric	Natividad	+65 221 7555	null	Singapore
Wendy	Victorino	+65 224 1555	null	Singapore
Veysel	Oeztan	+47 2267 3215	null	Norway
Isabel	de Castro	(1) 356-5555	null	Portugal
Matti	Karttunen	90-224 8555	null	Finland
Dean	Cassidy	+353 1862 1555	null	Ireland
Yoshi	Tamuri	(604) 555-3392	BC	Canada
Brydey	Walker	+612 9411 1555	null	Singapore
Mike	Gao	+852 2251 1555	null	Hong Kong
Eduardo	Saavedra	(93) 203 4555	null	Spain
Horst	Kloss	0372-555188	null	Germany
Palle	Ibsen	86 21 3555	null	Denmark
Jean	Fresnière	(514) 555-8054	Québec	Canada

contactFirstName	contactLastName	phone	state	country
Mike	Graham	+64 9 312 5555	null	New Zealand
Kalle	Suominen	+358 9 8045 555	null	Finland
Philip	Cramer	0555-09555	null	Germany
Jesus	Fernandez	+34 913 728 555	null	Spain
Patricia	McKenna	2967 555	Co. Cork	Ireland
Armand	Kuger	+27 21 550 3555	Pretoria	South Africa
Wales	MacKinlay	64-9-3763555	null	New Zealand
Karin	Josephs	0251-555259	null	Germany
Lino	Rodriguez	(1) 354-2555	null	Portugal
Braun	Urs	0452-076555	null	Switzerland
Tony	Snowden	+64 9 5555500	null	New Zealand

Total 62 Rows in result of this query

- 34) Find customer number, first name, last name, contact number, and country of all customers who have cancelled their orders (Use in clause, although join is a better option for this query)

customerNumber	contactFirstName	contactLastName	phone	country
131	Kwai	Lee	2125557818	USA
141	Diego	Freyre	(91) 555 94 44	Spain
201	Elizabeth	Devon	(171) 555-2282	UK
357	Wales	MacKinlay	64-9-3763555	New Zealand
448	Martha	Larsson	0695-34 6555	Sweden
496	Tony	Snowden	+64 9 5555500	New Zealand

MySQL GROUP BY Clause

- 35) Write a query to find the number of items ordered in each order.

orderNumber	count(*)
10100	4
10101	4
10102	2
10103	16
10104	13
10105	15
10106	18
10107	8
10108	16
10109	6
10110	16
10111	6
10112	2
10113	4
10114	10

orderNumber count(*)	
10115	5
10116	1
10117	12

Total 326 Rows in result of this query

- 36) Write a query to find the number of items ordered in each order and rename the column as "Items Ordered"

orderNumber	Items Ordered
10100	4
10101	4
10102	2
10103	16
10104	13
10105	15
10106	18
10107	8
10108	16
10109	6
10110	16
10111	6
10112	2
10113	4
10114	10
10115	5
10116	1
10117	12

Total 326 Rows in result of this query

- 37) Write a query to find out how many orders have items from each product orderLineNumber.

orderLineNumber count(*)	
1	326
2	309
3	287
4	273
5	256
6	238
7	212
8	201

orderLineNumber	count(*)
9	177
10	149
11	134
12	114
13	101
14	82
15	57
16	43
17	26
18	11

38) Write a query to find the total amount of each order as "Amount"

orderNumber	Amount
10100	10223.83
10101	10549.01
10102	5494.78
10103	50218.95
10104	40206.20
10105	53959.21
10106	52151.81
10107	22292.62
10108	51001.22
10109	25833.14
10110	48425.69
10111	16537.85
10112	7674.94
10113	11044.30
10114	33383.14

Total 326 Rows in result of this query

39) Write a query to find the total amount of first 5 orders as “Amount”

orderNumber	Amount
10100	10223.83
10101	10549.01
10102	5494.78
10103	50218.95
10104	40206.20

40) Write a query to find the total amount of all orders as “Amount” in which total amount is more than 10000

orderNumber	Amount
10312	10286.40
10403	11503.14
10404	10460.16
10405	11170.52
10407	10723.60
10424	10072.00

41) Count the total number of customers from each country in the customers table

country	No of Customers
Australia	5
Austria	2
Belgium	2
Canada	3
Denmark	2
Finland	3
France	12
Germany	13

country	No of Customers
Hong Kong	1
Ireland	2
Israel	1
Italy	4
Japan	2
Netherlands	1
New Zealand	4
Norway	3
Philippines	1
Poland	1
Portugal	2
Russia	1
Singapore	3
South Africa	1
Spain	7
Sweden	2
Switzerland	3
UK	5
USA	36

42) Count the total number of customers from each country and there states in the customers table.

country	state	No of Customers
Australia	NSW	2
Australia	Queensland	1
Australia	Victoria	2
Austria	null	2
Belgium	null	2
Canada	BC	2

country	state	No of Customers
Canada	Québec	1
Denmark	null	2
Finland	null	3
France	null	12
Germany	null	13
Hong Kong	null	1
Ireland	null	1
Ireland	Co. Cork	1
Israel	null	1
Italy	null	4
Japan	Osaka	1
Japan	Tokyo	1
Netherlands	null	1
New Zealand	null	4
Norway	null	3
Philippines	null	1
Poland	null	1
Portugal	null	2
Russia	null	1
Singapore	null	3
South Africa	Pretoria	1
Spain	null	7
Sweden	null	2
Switzerland	null	3
UK	null	4
UK	Isle of Wight	1
USA	CA	11

country	state	No of Customers
USA	CT	4
USA	MA	9
USA	NH	1
USA	NJ	1
USA	NV	1
USA	NY	6
USA	PA	3

43) Count the total number of customers from different states of USA.

country	state	No of Customers
USA	CA	11
USA	CT	4
USA	MA	9
USA	NH	1
USA	NJ	1
USA	NV	1
USA	NY	6
USA	PA	3

44) Count the total number of customers from different states of whose name starts with U

country	State	No of Customers
UK	Null	4
USA	CA	11
USA	CT	4
UK	Isle of Wight	1
USA	MA	9
USA	NH	1
USA	NJ	1
USA	NV	1

country	State	No of Custmores
USA	NY	6
USA	PA	3

45) Write a query to count the number of employees in each designation in the company.

jobTitle	Number of Employees
President	1
Sale Manager (EMEA)	1
Sales Manager (APAC)	1
Sales Manager (NA)	1
Sales Rep	17
VP Marketing	1
VP Sales	1

46) Write a query to count the number of employees in all designations in Sales department.

Sales Dept Employees
21

MySQL HAVING Clause

47) Write a query to list all countries from where the company has 5 or more customers.

country	CustomersNo
Australia	5
France	12
Germany	13
Spain	7
UK	5
USA	36

48) Write a query to list all countries from where the company has 5 or more customers in decreasing order.

country	CustomersNo
USA	36
Germany	13
France	12
Spain	7

country	CustomersNo
UK	5
Australia	5

49) Write a query to list top 3 countries, in terms of number of customers. (Listed countries should have at least 5 customers)

country	CustomersNo
USA	36
Germany	13
France	12

50) Write a query to find which office number has maximum employees along with number of employees in that office.

officeCode	NoOfEmployees
1	6

51) Write a query to find all orders in which more than 16 products were ordered.

orderNumber	NoOfItems
10106	18
10122	17
10126	17
10135	17
10159	18
10165	18
10168	18
10181	17
10182	17
10204	17
10210	17
10222	18
10275	18
10280	17
10287	17
10304	17
10306	17
10310	17
10312	17
10316	18
10332	18
10350	17
10360	18
10373	17
10386	18
10398	18

Total 26 Rows in result of this query

52) Write a query to find all orders in which more than 16 products were ordered arrange in decreasing order of products and increasing order of order number.

orderNumber	NoOfItems
10106	18
10159	18
10165	18
10168	18
10222	18
10275	18
10316	18
10332	18
10360	18
10386	18
10398	18
10122	17
10126	17
10135	17
10181	17
10182	17
10204	17
10210	17
10280	17
10287	17
10304	17
10306	17
10310	17
10312	17
10350	17
10373	17

Total 26 Rows in result of this query

53) Write a query to find all orders in which there are more than 3 products whose price is more than 140.

orderNumber	NoOfItems
10127	5
10176	4
10247	4
10282	4
10349	4
10382	4

- 54) Write a query to find all orders in which there are more than 4 products whose price between 120 and 140, arrange them in descending order of number of items.

orderNumber	NoOfItems
10181	7
10331	5
10310	5
10287	5
10321	5

MySQL Subqueries/Nested Queries

- 55) Find the customer ID, check number and amount of customer who has made minimum payment.

customerNumber	checkNumber	amount
398	JPMR4544	615.45

- 56) Find the product details of all products which have buyPrice above average buyPrice of all products.

productCode	productName	productLine	buyPrice
S10_1949	1952 Alpine Renault 1300	Classic Cars	98.58
S10_2016	1996 Moto Guzzi 1100i	Motorcycles	68.99
S10_4698	2003 Harley-Davidson Eagle Drag Bike	Motorcycles	91.02
S10_4757	1972 Alfa Romeo GTA	Classic Cars	85.68
S10_4962	1962 LanciaA Delta 16V	Classic Cars	103.42
S12_1099	1968 Ford Mustang	Classic Cars	95.34
S12_1108	2001 Ferrari Enzo	Classic Cars	95.59
S12_1666	1958 Setra Bus	Trucks and Buses	77.90
S12_2823	2002 Suzuki XRE0	Motorcycles	66.27
S12_3148	1969 Corvair Monza	Classic Cars	89.14
S12_3380	1968 Dodge Charger	Classic Cars	75.16
S12_3891	1969 Ford Falcon	Classic Cars	83.05
S12_4473	1957 Chevy Pickup	Trucks and Buses	55.70
S12_4675	1969 Dodge Charger	Classic Cars	58.73

Total 54 Rows in result of this query

- 57) Write a query to find the customer who are from the countries where the company has offices.

customerName	contactFirstName	country
Signal Gift Stores	Jean	USA
Mini Gifts Distributors Ltd.	Susan	USA
Atelier graphique	Carine	France
Mini Caravy	Frédérique	France

customerName	contactFirstName	country
Osaka Souveniers Co.	Mory	Japan
Tokyo Collectables, Ltd	Akiko	Japan
Australian Collectors, Co.	Peter	Australia
giftsbymail.co.uk	Helen	UK
Stylish Desk Decors, Co.	Ann	UK
Double Decker Gift Stores, Ltd	Thomas	UK

Total 60 Rows in result of this query

58) Write a query to find out the offices which have people with jobTitle other than "Sales Rep"

officeCode
1
6
4

MySQL INNER JOIN Clause

59) Write a query to find the customer name, city, phone number, order number and order status of all order placed in the company.

customerName	City	phone	orderNumber	status
Atelier graphique	Nantes	40.32.2555	10123	Shipped
Atelier graphique	Nantes	40.32.2555	10298	Shipped
Atelier graphique	Nantes	40.32.2555	10345	Shipped
Signal Gift Stores	Las Vegas	7025551838	10124	Shipped
Signal Gift Stores	Las Vegas	7025551838	10278	Shipped
Signal Gift Stores	Las Vegas	7025551838	10346	Shipped
Australian Collectors, Co.	Melbourne	03 9520 4555	10120	Shipped
Australian Collectors, Co.	Melbourne	03 9520 4555	10347	Shipped
La Rochelle Gifts	Nantes	40.67.8555	10275	Shipped
Baane Mini Imports	Stavern	07-98 9555	10103	Shipped
Baane Mini Imports	Stavern	07-98 9555	10158	Shipped
Mini Gifts Distributors Ltd.	San Rafael	4155551450	10113	Shipped
Mini Gifts Distributors Ltd.	San Rafael	4155551450	10135	Shipped

Total 326 Rows in result of this query

60) Write a query to find the customer name, city, phone number, order number and order status of all order placed in the company arranged in sequence of order number.

customerName	City	phone	orderNumber	status
Online Diecast Creations Co.	Nashua	6035558647	10100	Shipped
Blauer See Auto, Co.	Frankfurt	+49 69 66 90 2555	10101	Shipped
Vitachrome Inc.	NYC	2125551500	10102	Shipped
Baane Mini Imports	Stavern	07-98 9555	10103	Shipped
Euro+ Shopping Channel	Madrid	(91) 555 94 44	10104	Shipped
Danish Wholesale Imports	Kobenhavn	31 12 3555	10105	Shipped
Rovelli Gifts	Bergamo	035-640555	10106	Shipped

customerName	City	phone	orderNumber	status
Land of Toys Inc.	NYC	2125557818	10107	Shipped
Cruz & Sons Co.	Makati City	+63 2 555 3587	10108	Shipped
Motor Mint Distributors Inc.	Philadelphia	2155559857	10109	Shipped
AV Stores, Co.	Manchester	(171) 555-1555	10110	Shipped
Mini Wheels Co.	San Francisco	6505555787	10111	Shipped
Volvo Model Replicas, Co	Luleå	0921-12 3555	10112	Shipped
Mini Gifts Distributors Ltd.	San Rafael	4155551450	10113	Shipped
La Corne D'abondance, Co.	Paris	(1) 42.34.2555	10114	Shipped
Classic Legends Inc.	NYC	2125558493	10115	Shipped
Royale Belge	Charleroi	(071) 23 67 2555	10116	Shipped
Dragon Souvenirs, Ltd.	Singapore	+65 221 7555	10117	Shipped
Enaco Distributors	Barcelona	(93) 203 4555	10118	Shipped
Salzburg Collectables	Salzburg	6562-9555	10119	Shipped
Australian Collectors, Co.	Melbourne	03 9520 4555	10120	Shipped
Reims Collectables	Reims	26.47.1555	10121	Shipped

Total 326 Rows in result of this query

- 61) Write a query to find the customer name, city, phone number, order number and order status of all cancelled orders.

customerName	City	phone	orderNumber	status
Land of Toys Inc.	NYC	2125557818	10248	Cancelled
Euro+ Shopping Channel	Madrid	(91) 555 94 44	10262	Cancelled
UK Collectables, Ltd.	Liverpool	(171) 555-2282	10253	Cancelled
GiftsForHim.com	Auckland	64-9-3763555	10260	Cancelled
Scandinavian Gift Ideas	Bräcke	0695-34 6555	10167	Cancelled
Kelly's Gift Shop	Auckland	+64 9 5555500	10179	Cancelled

- 62) Write a query to find the customer name, city, country, phone number, order number and order status of all orders from Spain.

customerName	City	country	phone	orderNumber	Status
Euro+ Shopping Channel	Madrid	Spain	(91) 555 94 44	10104	Shipped
Enaco Distributors	Barcelona	Spain	(93) 203 4555	10118	Shipped
Enaco Distributors	Barcelona	Spain	(93) 203 4555	10197	Shipped
Enaco Distributors	Barcelona	Spain	(93) 203 4555	10340	Shipped
CAF Imports	Madrid	Spain	+34 913 728 555	10177	Shipped
CAF Imports	Madrid	Spain	+34 913 728 555	10231	Shipped
Corrida Auto Replicas, Ltd	Madrid	Spain	(91) 555 22 82	10126	Shipped
Corrida Auto Replicas, Ltd	Madrid	Spain	(91) 555 22 82	10214	Shipped
Corrida Auto Replicas, Ltd	Madrid	Spain	(91) 555 22 82	10348	Shipped
Iberia Gift Imports, Corp.	Sevilla	Spain	(95) 555 82 82	10184	Shipped
Iberia Gift Imports, Corp.	Sevilla	Spain	(95) 555 82 82	10303	Shipped

Total 36 Rows in result of this query

- 63) Write a query to find the customer name, city, country, phone number, order number and order status of all orders from Spain whose status is not Shipped.

customerName	City	country	Phone	orderNumber	status
Euro+ Shopping Channel	Madrid	Spain	(91) 555 94 44	10262	Cancelled
Euro+ Shopping Channel	Madrid	Spain	(91) 555 94 44	10386	Resolved
Euro+ Shopping Channel	Madrid	Spain	(91) 555 94 44	10417	Disputed
Euro+ Shopping Channel	Madrid	Spain	(91) 555 94 44	10424	In Process

64) Write a query to find the customer name, city, country, phone number, order number and order status of all orders from countries whose name start with N and status in not Shipped.

customerName	city	country	phone	orderNumber	status
GiftsForHim.com	Auckland	New Zealand	64-9-3763555	10260	Cancelled
Kelly's Gift Shop	Auckland	New Zealand	+64 9 5555500	10179	Cancelled

65) Write a query to find the order number in which "Setra Bus" has been ordered.

orderNumber	productName
10103	1958 Setra Bus
10113	1958 Setra Bus
10126	1958 Setra Bus
10140	1958 Setra Bus
10150	1958 Setra Bus
10164	1958 Setra Bus
10174	1958 Setra Bus

66) Write a query to list all employees and there state and country of work location.

firstName	lastName	jobTitle	state	Country
Diane	Murphy	President	CA	USA
Mary	Patterson	VP Sales	CA	USA
Jeff	Firrelli	VP Marketing	CA	USA
Anthony	Bow	Sales Manager (NA)	CA	USA
Leslie	Jennings	Sales Rep	CA	USA
Leslie	Thompson	Sales Rep	CA	USA
Julie	Firrelli	Sales Rep	MA	USA
Steve	Patterson	Sales Rep	MA	USA
Foon Yue	Tseng	Sales Rep	NY	USA
George	Vanauf	Sales Rep	NY	USA
Gerard	Bondur	Sale Manager (EMEA)	null	France
Loui	Bondur	Sales Rep	null	France
Gerard	Hernandez	Sales Rep	null	France
Pamela	Castillo	Sales Rep	null	France
Martin	Gerard	Sales Rep	null	France
Mami	Nishi	Sales Rep	Chiyoda-Ku	Japan
Yoshimi	Kato	Sales Rep	Chiyoda-Ku	Japan
William	Patterson	Sales Manager (APAC)	null	Australia
Andy	Fixter	Sales Rep	null	Australia

firstName	lastName	jobTitle	state	Country
Peter	Marsh	Sales Rep	null	Australia
Tom	King	Sales Rep	null	Australia
Larry	Bott	Sales Rep	null	UK
Barry	Jones	Sales Rep	null	UK

Total 23 Rows in result of this query

67) Write a query to list all employees who work in France

firstName	lastName	jobTitle	country
Gerard	Bondur	Sale Manager (EMEA)	France
Loui	Bondur	Sales Rep	France
Gerard	Hernandez	Sales Rep	France
Pamela	Castillo	Sales Rep	France
Martin	Gerard	Sales Rep	France

68) Write a query to list all names of customers who have made payment of more than 100000

customerName	contactFirstName	contactLastName	Amount
Mini Gifts Distributors Ltd.	Susan	Nelson	101244.59
Mini Gifts Distributors Ltd.	Susan	Nelson	111654.40
Euro+ Shopping Channel	Diego	Freyre	116208.40
Euro+ Shopping Channel	Diego	Freyre	120166.58
Dragon Souvenirs, Ltd.	Eric	Natividad	105743.00

69) Write a query to list names of customers who have made payment of more than 50000 more than once.

customerName	contactFirstName	contactLastName	amount	NoCustomer
Euro+ Shopping Channel	Diego	Freyre	59830.55	5
Mini Gifts Distributors Ltd.	Susan	Nelson	101244.59	5
Muscle Machine Inc	Jeff	Young	58793.53	2
Online Diecast Creations Co.	Dorothy	Young	50799.69	2

70) Write a query to list names of all customers who have made any payment in decreasing order of number of payments made by them.

customerName	contactFirstName	contactLastName	NoPayments
Euro+ Shopping Channel	Diego	Freyre	13
Mini Gifts Distributors Ltd.	Susan	Nelson	9
Down Under Souvenirs, Inc	Mike	Graham	4
Muscle Machine Inc	Jeff	Young	4
Danish Wholesale Imports	Jytte	Petersen	4
Royale Belge	Pascale	Cartrain	4
Australian Collectors, Co.	Peter	Ferguson	4
Technics Stores Inc.	Juri	Hashimoto	4
Dragon Souvenirs, Ltd.	Eric	Natividad	4

customerName	contactFirstName	contactLastName	NoPayments
Baane Mini Imports	Jonas	Bergulfson	4

Total 98 Rows in result of this query

- 71) Write a query to list names of all customers who have made payments in decreasing order of total payment made by them along with number of payments made.

customerName	contactFirstName	contactLastName	NoPayments	Total
Euro+ Shopping Channel	Diego	Freyre	13	715738.98
Mini Gifts Distributors Ltd.	Susan	Nelson	9	584188.24
Australian Collectors, Co.	Peter	Ferguson	4	180585.07
Muscle Machine Inc	Jeff	Young	4	177913.95
Dragon Souveniers, Ltd.	Eric	Natividad	4	156251.03
Down Under Souveniers, Inc	Mike	Graham	4	154622.08
AV Stores, Co.	Rachel	Ashworth	3	148410.09
Anna's Decorations, Ltd	Anna	O'Hara	4	137034.22
Corporate Gift Ideas Co.	Julie	Brown	2	132340.78
Saveley & Henriot, Co.	Mary	Saveley	3	130305.35

Total 98 Rows in result of this query

- 72) Find the top 3 products which have been ordered along with number of times it has been ordered, if the number is same the product should be arranged alphabetically.

productCode	productName	NoProducts
S18_3232	1992 Ferrari 360 Spider red	53
S10_1678	1969 Harley Davidson Ultimate Chopper	28
S10_1949	1952 Alpine Renault 1300	28

- 73) Find the top 5 products which have made highest sales amount for company along with the Total Amount for those products.

productCode	productName	TotalAmount
S18_3232	1992 Ferrari 360 Spider red	276839.98
S12_1108	2001 Ferrari Enzo	190755.86
S10_1949	1952 Alpine Renault 1300	190017.96
S10_4698	2003 Harley-Davidson Eagle Drag Bike	170686.00
S12_1099	1968 Ford Mustang	161531.48

- 74) Write a query to find name of all customers who have top 8 single payments.

customerNumber	customerName	Amount
141	Euro+ Shopping Channel	120166.58
141	Euro+ Shopping Channel	116208.40
124	Mini Gifts Distributors Ltd.	111654.40
148	Dragon Souveniers, Ltd.	105743.00
124	Mini Gifts Distributors Ltd.	101244.59

customerNumber	customerName	Amount
321	Corporate Gift Ideas Co.	85559.12
124	Mini Gifts Distributors Ltd.	85410.87
167	Herkku Gifts	85024.46

75) Write a query to find name of 5 customers who have highest total payments and number of payments made for that amount.

customerNumber	customerName	TotalPayment	NoPayments
141	Euro+ Shopping Channel	715738.98	13
124	Mini Gifts Distributors Ltd.	584188.24	9
114	Australian Collectors, Co.	180585.07	4
151	Muscle Machine Inc	177913.95	4
148	Dragon Souvenirs, Ltd.	156251.03	4

76) Write a query to find name of all customers, contact person and phone number whose order have been cancelled.

customerName	contactFirstName	contactLastName	phone
Land of Toys Inc.	Kwai	Lee	2125557818
Euro+ Shopping Channel	Diego	Freyre	(91) 555 94 44
UK Collectables, Ltd.	Elizabeth	Devon	(171) 555-2282
GiftsForHim.com	Wales	Mackinlay	64-9-3763555
Scandinavian Gift Ideas	Martha	Larsson	0695-34 6555
Kelly's Gift Shop	Tony	Snowden	+64 9 5555500

Self Join

77) Write a query to list all employees and there their supervisors name.

firstName	lastName	firstName	lastName
Mary	Patterson	Diane	Murphy
Jeff	Firrelli	Diane	Murphy
William	Patterson	Mary	Patterson
Gerard	Bondur	Mary	Patterson
Anthony	Bow	Mary	Patterson
Leslie	Jennings	Anthony	Bow
Leslie	Thompson	Anthony	Bow
Julie	Firrelli	Anthony	Bow
Steve	Patterson	Anthony	Bow

firstName	lastName	firstName	lastName
Foon Yue	Tseng	Anthony	Bow
George	Vanauf	Anthony	Bow
Loui	Bondur	Gerard	Bondur
Gerard	Hernandez	Gerard	Bondur
Pamela	Castillo	Gerard	Bondur
Larry	Bott	Gerard	Bondur
Barry	Jones	Gerard	Bondur
Andy	Fixter	William	Patterson
Peter	Marsh	William	Patterson
Tom	King	William	Patterson
Mami	Nishi	Mary	Patterson
Yoshimi	Kato	Mami	Nishi
Martin	Gerard	Gerard	Bondur

78) Write a query to list all employees and there their supervisors name sorted by name of employee.

firstName	lastName	firstName	lastName
Andy	Fixter	William	Patterson
Anthony	Bow	Mary	Patterson
Barry	Jones	Gerard	Bondur
Foon Yue	Tseng	Anthony	Bow
George	Vanauf	Anthony	Bow
Gerard	Hernandez	Gerard	Bondur
Gerard	Bondur	Mary	Patterson
Jeff	Firrelli	Diane	Murphy
Julie	Firrelli	Anthony	Bow
Larry	Bott	Gerard	Bondur
Leslie	Thompson	Anthony	Bow
Leslie	Jennings	Anthony	Bow
Loui	Bondur	Gerard	Bondur
Mami	Nishi	Mary	Patterson
Martin	Gerard	Gerard	Bondur
Mary	Patterson	Diane	Murphy
Pamela	Castillo	Gerard	Bondur
Peter	Marsh	William	Patterson
Steve	Patterson	Anthony	Bow
Tom	King	William	Patterson
William	Patterson	Mary	Patterson
Yoshimi	Kato	Mami	Nishi

79) Write a query to list all officers (All job tile except Sales Rep) and the name and designation of employee they supervise, arrange the result in order of supervisor name.

jobTitle	firstName	lastName	firstName	lastName	jobTitle
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jobTitle	firstName	lastName	firstName	lastName	jobTitle
Sales Manager (NA)	Anthony	Bow	Steve	Patterson	Sales Rep
Sales Manager (NA)	Anthony	Bow	Foon Yue	Tseng	Sales Rep
Sales Manager (NA)	Anthony	Bow	Leslie	Jennings	Sales Rep
Sales Manager (NA)	Anthony	Bow	George	Vanauf	Sales Rep
Sales Manager (NA)	Anthony	Bow	Leslie	Thompson	Sales Rep
Sales Manager (NA)	Anthony	Bow	Julie	Firrelli	Sales Rep
President	Diane	Murphy	Mary	Patterson	VP Sales
President	Diane	Murphy	Jeff	Firrelli	VP Marketing
Sale Manager (EMEA)	Gerard	Bondur	Martin	Gerard	Sales Rep
Sale Manager (EMEA)	Gerard	Bondur	Gerard	Hernandez	Sales Rep
Sale Manager (EMEA)	Gerard	Bondur	Pamela	Castillo	Sales Rep
Sale Manager (EMEA)	Gerard	Bondur	Larry	Bott	Sales Rep
Sale Manager (EMEA)	Gerard	Bondur	Barry	Jones	Sales Rep
Sale Manager (EMEA)	Gerard	Bondur	Loui	Bondur	Sales Rep
Sales Rep	Mami	Nishi	Yoshimi	Kato	Sales Rep
VP Sales	Mary	Patterson	Gerard	Bondur	Sale Manager (EMEA)
VP Sales	Mary	Patterson	Anthony	Bow	Sales Manager (NA)
VP Sales	Mary	Patterson	Mami	Nishi	Sales Rep
VP Sales	Mary	Patterson	William	Patterson	Sales Manager (APAC)
Sales Manager (APAC)	William	Patterson	Peter	Marsh	Sales Rep
Sales Manager (APAC)	William	Patterson	Tom	King	Sales Rep
Sales Manager (APAC)	William	Patterson	Andy	Fixter	Sales Rep

Join of more than 2 tables

80) Write a query to list status the all orders which have ordered “Setra Bus”

orderNumber	status	productName
10103	Shipped	1958 Setra Bus
10113	Shipped	1958 Setra Bus
10126	Shipped	1958 Setra Bus
10140	Shipped	1958 Setra Bus
10150	Shipped	1958 Setra Bus
10164	Resolved	1958 Setra Bus
10174	Shipped	1958 Setra Bus
10411	Shipped	1958 Setra Bus
10424	In Process	1958 Setra Bus

Total 28 Rows in result of this query

81) Write a query to list status the all orders which have ordered “Setra Bus” but has not been shipped.

orderNumber	status	productCode	productName
10164	Resolved	S12_1666	1958 Setra Bus
10424	In Process	S12_1666	1958 Setra Bus

MySQL Aggregate Functions

82) Write a query to find the number of orders with each unique status in the orders table

Status	NoOfOrders
Cancelled	6
Disputed	3
In Process	6
On Hold	4
Resolved	4
Shipped	303