

QNO: 1

```
select * from customers
where creditLimit>20000;
```

Result Grid												
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content: <input type="checkbox"/>						
customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Royale		Nantes		44000	France	1370	21000.00
112	Signal Gift Stores	King	Jean	7025551838	8489 Strong St.		Las Vegas	NV	83030	USA	1166	71800.00
114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555	636 St Kilda Road	Level 3	Melbourne	Victoria	3004	Australia	1611	117300.00
119	La Rochelle Gifts	Labrun	Janine	40.67.8555	67, rue des Cinquante Otages		Nantes		44000	France	1370	118200.00
121	Baane Mini Imports	Bergulfsen	Jonas	07-98 9555	Erling Skakkes gate 78		Stavern		4110	Norway	1504	81700.00
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	5677 Strong St.		San Rafael	CA	97562	USA	1165	210500.00
128	Blauer See Auto, Co.	Keitel	Roland	+49 69 66 90 2555	Lyonerstr. 34		Frankfurt		60528	Germany	1504	59700.00
129	Mini Wheels Co.	Murphy	Julie	6505555787	5557 North Pendale Street		San Francisco	CA	94217	USA	1165	64600.00
131	Land of Toys Inc.	Lee	Kwai	2125557818	897 Long Airport Avenue		NYC	NY	10022	USA	1323	114900.00
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44	C/Moralzarzal, 86		Madrid		28034	Spain	1370	227600.00
144	Volvo Model Replicas, Co	Berglund	Christina	0921-12 3555	Berguvsvägen 8		Luleå	S-958 22		Sweden	1504	53100.00
145	Danish Wholesale Imports	Petersen	Jytte	31 12 3555	Vindhøjvej 34		Copenhagen		1734	Denmark	1401	83400.00
146	Saveley & Henriot, Co.	Saveley	Mary	78.32.5555	2, rue du Commerce		Lyon		69004	France	1337	123900.00
148	Dragon Souvenirs, Ltd.	Natividad	Eric	+65 221 7555	Bronz Sok.	Bronz Apt. 3...	Singapore		079903	Singapore	1621	103800.00
151	Musde Machine Inc	Young	Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY	10022	USA	1286	138500.00
157	Diecast Classics Inc.	Leong	Kelvin	2155551555	7586 Pompton St.		Allentown	PA	70267	USA	1216	100600.00
161	Technics Stores Inc.	Hashimoto	Juri	6505556809	9408 Furth Circle		Burlingame	CA	94217	USA	1165	84600.00
166	Handij Gifts & Co	Victorino	Wendy	+65 224 1555	106 Linden Road Sandown	2nd Floor	Singapore		069045	Singapore	1612	97900.00
167	Herikku Gifts	Oeztan	Veysel	+47 2267 3215	Brehmen St. 121	PR 334 Sent...	Bergen		N 5804	Norway	1504	96800.00

QNO: 2

```
6  -- Q00 2
7 • select *
8  from employees
9  where reportsTo in (select employeeNumber from employees where jobTitle='VP Sales');
10
```

[illegible]

```

12 -- Qno: 3
13 • select *
14 from customers
15 where (state is not null) and (country='USA') and (creditLimit between 100000 and 200000);
16
17
18

```

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
131	Land of Toys Inc.	Lee	Kwai	2125557818	897 Long Airport Avenue		NYC	NY	10022	USA	1323	114900.00
151	Muscle Machine Inc.	Young	Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY	10022	USA	1286	138500.00
157	Diecast Classics Inc.	Leong	Kelvin	2155551555	7586 Pompton St.		Allentown	PA	70267	USA	1216	100600.00
239	Collectable Mini Designs Co.	Thompson	Valarie	7605558146	361 Furth Circle		San Diego	CA	91217	USA	1166	105000.00
286	Marta's Replicas Co.	Hernandez	Marta	6175558555	39323 Spinnaker Dr.		Cambridge	MA	51247	USA	1216	123700.00
319	Mini Classics	Frick	Steve	9145554562	3758 North Pendale Street		White Plains	NY	24067	USA	1323	102700.00
321	Corporate Gift Ideas Co.	Brown	Julie	6505551386	7734 Strong St.		San Francisco	CA	94217	USA	1165	105000.00
363	Online Diecast Creations Co.	Young	Dorothy	6035558647	2304 Long Airport Avenue		Nashua	NH	62005	USA	1216	114200.00

```

18 -- qn: 4
19 select *
20 from employees
21 where reportsTo in (select employeeNumber from employees where jobTitle like '%Sales Manager%');
22

```

employeeNumber	lastName	firstName	extension	email	officeCode	reportsTo	jobTitle
1611	Fixter	Andy	x101	afixter@classicmodelcars.com	6	1088	Sales Rep
1612	Marsh	Peter	x102	pmarsh@classicmodelcars.com	6	1088	Sales Rep
1619	King	Tom	x103	tking@classicmodelcars.com	6	1088	Sales Rep
1165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1	1143	Sales Rep
1166	Thompson	Leslie	x4065	lthompson@classicmodelcars.com	1	1143	Sales Rep
1188	Firrelli	Julie	x2173	jfirrelli@classicmodelcars.com	2	1143	Sales Rep
1216	Patterson	Steve	x4334	spatterson@classicmodelcars.com	2	1143	Sales Rep
1286	Tseng	Foon Yue	x2248	ftseng@classicmodelcars.com	3	1143	Sales Rep
1323	Vanauf	George	x4102	gvanauf@classicmodelcars.com	3	1143	Sales Rep

```

23  -- QNO: 5
24 • select country, avg(creditLimit) as average_creditLimit
25  from customers
26  group by country
27  ;
28

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
country	average_creditLimit		
▶ France	77691.666667		
USA	78102.777778		
Australia	86060.000000		
Norway	81700.000000		
Poland	0.000000		
Germany	19776.923077		
Spain	73971.428571		
Sweden	84750.000000		
Denmark	102100.000000		
Singapore	67233.333333		
Norway	95950.000000		
Portugal	0.000000		
Japan	87800.000000		
Finland	95266.666667		
UK	88740.000000		
Ireland	34700.000000		
Canada	76200.000000		
Hong Kong	58600.000000		
Italy	97200.000000		
Switzerland	47100.000000		

```

30  -- QNO: 6
31 • SELECT orderDate, customerNumber, COUNT(*) AS totalOrders
32  FROM Orders
33  GROUP BY orderDate, customerNumber
34  HAVING totalOrders > 10;

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
orderDate	customerNumber	totalOrders	

```

37  -- QNO: 7
38 • SELECT
39      employeeNumber,
40      CONCAT(firstName, ' ', lastName) AS supervisorName,
41      jobTitle,
42      (SELECT COUNT(*) FROM employees e WHERE e.reportsTo = emp.employeeNumber) AS totalSupervisees
43  FROM employees emp
44  WHERE employeeNumber IN (SELECT DISTINCT reportsTo FROM employees);

```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 



employeeNumber	supervisorName	jobTitle	totalSupervisees
1002	Diane Murphy	President	2
1056	Mary Patterson	VP Sales	4
1088	William Patterson	Sales Manager (APAC)	3
1102	Gerard Bondur	Sale Manager (EMEA)	6
1143	Anthony Bow	Sales Manager (NA)	6
1621	Mami Nishi	Sales Rep	1

SS

```

46  -- QNO: 8
47 • select
48      emp.employeeNumber,
49      CONCAT(emp.firstName, ' ', emp.lastName) AS supervisorName,
50      emp.jobTitle,
51      sup.totalSupervisees
52  from employees emp
53  join
54      (select reportsTo as employeeNumber, count(*) as totalSupervisees from employees
55       group by reportsTo
56       ) sup
57  on emp.employeeNumber= sup.employeeNumber;

```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

employeeNumber	supervisorName	jobTitle	totalSupervisees
1002	Diane Murphy	President	2
1056	Mary Patterson	VP Sales	4
1088	William Patterson	Sales Manager (APAC)	3
1102	Gerard Bondur	Sale Manager (EMEA)	6
1143	Anthony Bow	Sales Manager (NA)	6
1621	Mami Nishi	Sales Rep	1


```

60 -- QNO: 9
61 with avg_salary as (
62     select avg(creditLimit) as avgLimit
63     from customers
64 )
65 select *
66 from customers c , avg_salary av
67 where c.creditLimit>av.avgLimit;

```

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit	avgLimit
112	Signal Gift Stores	King	Jean	7025551838	8489 Strong St.	NULL	Las Vegas	NV	83030	USA	1166	71800.00	67659.016393
114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555	636 St Kilda Road	Level 3	Melbourne	Victoria	3004	Australia	1611	117300.00	67659.016393
119	La Rochelle Gifts	Labruno	Janine	40.67.8555	67, rue des Cinquante Otages	NULL	Nantes	NULL	44000	France	1370	118200.00	67659.016393
121	Baane Mini Imports	Bergulfsen	Jonas	07-98 9555	Erling Skakkes gate 78	NULL	Stavern	NULL	4110	Norway	1504	81700.00	67659.016393
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	5677 Strong St.	NULL	San Rafael	CA	97562	USA	1165	210500.00	67659.016393
131	Land of Toys Inc.	Lee	Kwai	2125557818	897 Long Airport Avenue	NULL	NYC	NY	10022	USA	1323	114900.00	67659.016393
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44	C/ Moralzarzal, 86	NULL	Madrid	NULL	28034	Spain	1370	227600.00	67659.016393
145	Danish Wholesale Imports	Petersen	Jytte	31 12 3555	Vinb Httet 34	NULL	Kobenhavn	NULL	1734	Denmark	1401	83400.00	67659.016393
146	Saveley & Henriot, Co.	Saveley	Mary	78.32.5555	2, rue du Commerce	NULL	Lyon	NULL	69004	France	1337	123900.00	67659.016393
148	Dragon Souvenirs, Ltd.	Natividad	Eric	+65 221 7555	Bronz Sok.	Bronz Apt. 3/6 Tesvikiye	Singapore	NULL	079903	Singapore	1621	103800.00	67659.016393
151	Muscle Machine Inc	Young	Jeff	2125557413	4092 Furth Cirde	Suite 400	NYC	NY	10022	USA	1286	138500.00	67659.016393
157	Diecast Classics Inc.	Leong	Kelvin	2155551555	7586 Pompton St.	NULL	Allentown	PA	70267	USA	1216	100600.00	67659.016393
161	Technics Stores Inc.	Hashimoto	Juri	6505556809	9408 Furth Cirde	NULL	Burlingame	CA	94217	USA	1165	84600.00	67659.016393
166	Handji Gifts & Co	Victorino	Wendy	+65 224 1555	106 Linden Road Sandown	2nd Floor	Singapore	NULL	069045	Singapore	1612	97900.00	67659.016393
167	Herkuu Gifts	Oeztan	Veysel	+47 2267 3215	Brehmen St. 121	PR 334 Sentrum	Bergen	NULL	N 5804	Norway	1504	96800.00	67659.016393
171	Daedalus Designs Imports	Ranc l-@	Martine	20.16.1555	184, chauss l-@e de Tournai	NULL	Lille	NULL	59000	France	1370	82900.00	67659.016393

```

69 -- QNO: 10
70 with orderbyCreditLimit as (
71     select
72         *,
73         dense_rank() over(order by creditLimit desc) as creditRank
74     from customers
75 )
76 select *
77 from orderbyCreditLimit
78 where creditRank=3;


```

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit	creditRank
298	Vida Sport, Ltd	Holz	Mihael	0897-034555	Grenzacherweg 237	NULL	Gen l-cve	NULL	1203	Switzerland	1702	141300.00	3

```

81  -- QNO: 11
82  • select
83      officeCode,
84      count(employeeNumber) as totalEmployeesCount
85  from employees
86  group by officeCode;

```

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	officeCode	totalEmployeesCount
▶	1	6
	2	2
	3	2
	4	5
	5	2
	6	4
	7	2

```

89  -- QNO: 12
90  • select
91      em.officeCode,
92      count(c.customerName) as totalCustomerVisits
93  from customers c
94  inner join employees em
95  on c.salesRepEmployeeNumber= em.employeeNumber
96  group by em.officeCode
97  order by em.officeCode;

```


Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	officeCode	totalCustomerVisits
▶	1	12
	2	12
	3	15
	4	29
	5	5
	6	10
	7	17

```

100  -- QNO: 13
101 • SELECT
102      em.officeCode,
103      ofc.state,
104      ofc.country,
105      SUM(py.amount) AS totalPayment
106 FROM customers cu
107 LEFT JOIN employees em ON em.employeeNumber = cu.salesRepEmployeeNumber
108 LEFT JOIN payments py ON cu.customerNumber = py.customerNumber
109 LEFT JOIN offices ofc ON em.officeCode = ofc.officeCode
110 WHERE em.officeCode IS NOT NULL -- Excludes rows where officeCode is null
111 GROUP BY em.officeCode, ofc.state, ofc.country
112 ORDER BY em.officeCode;

```





Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	officeCode	state	country	totalPayment
▶	1	CA	USA	1337439.58
	2	MA	USA	835882.33
	3	NY	USA	1072619.47
	4	NULL	France	2819168.90
	5	Chiyoda-Ku	Japan	457110.07
	6	NULL	Australia	1007292.98
	7	NULL	UK	1324325.90

```

114  -- QNO: 14
115  • SELECT
116      ofc.officeCode,
117      ofc.state,
118      ofc.country,
119      SUM(od.priceEach * od.quantityOrdered) AS totalSales
120  FROM customers cu
121  JOIN employees em ON cu.salesRepEmployeeNumber = em.employeeNumber
122  JOIN offices ofc ON em.officeCode = ofc.officeCode
123  JOIN orders ord ON ord.customerNumber = cu.customerNumber
124  JOIN orderdetails od ON od.orderNumber = ord.orderNumber
125  GROUP BY ofc.officeCode, ofc.state, ofc.country
126  ORDER BY ofc.officeCode;

```

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	officeCode	state	country	totalSales
▶	1	CA	USA	1429063.57
	2	MA	USA	892538.62
	3	NY	USA	1157589.72
	4	NULL	France	3083761.58
	5	Chiyoda-Ku	Japan	457110.07
	6	NULL	Australia	1147176.35
	7	NULL	UK	1436950.70


```

129  -- QNO: 15
130  • with officeTotalPayment as (
131      SELECT
132          em.officeCode,
133          SUM(py.amount) AS totalPayment
134      FROM customers cu
135      JOIN employees em ON em.employeeNumber = cu.salesRepEmployeeNumber
136      JOIN payments py ON cu.customerNumber = py.customerNumber
137      JOIN offices ofc ON em.officeCode = ofc.officeCode
138      GROUP BY em.officeCode, ofc.state, ofc.country),
139  officeTotalSales as (
140      SELECT
141          ofc.officeCode,
142          SUM(od.priceEach * od.quantityOrdered) AS totalSales
143      FROM customers cu
144      JOIN employees em ON cu.salesRepEmployeeNumber = em.employeeNumber
145      JOIN offices ofc ON em.officeCode = ofc.officeCode
146      JOIN orders ord ON ord.customerNumber = cu.customerNumber
147      JOIN orderdetails od ON od.orderNumber = ord.orderNumber
148      GROUP BY ofc.officeCode, ofc.state, ofc.country
149  )
150  select
151      op.officeCode,
152      (os.totalSales-op.totalPayment) as totalPendingAmount
153  from officeTotalPayment op
154  join officeTotalSales os
155  on op.officeCode=os.officeCode
156  order by op.officeCode;

```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	officeCode	totalPendingAmount			
▶	1	91623.99			
	2	56656.29			
	3	84970.25			
	4	264592.68			
	5	0.00			
	6	139883.37			
	7	112624.80			

```

158 -- QNO: 16
159 • SELECT
160     customerNumber,
161     customerName,
162     country,
163     creditLimit,
164     SUM(creditLimit) OVER (PARTITION BY country) as countryTotalCreditLimit,
165     round((creditLimit / SUM(creditLimit) OVER (PARTITION BY country)) , 4) AS creditLimitProportion
166 FROM
167     customers
168 order by country;
169

```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	customerNumber	customerName	country	creditLimit	countryTotalCreditLimit	creditLimitProportion
▶	114	Australian Collectors, Co.	Australia	117300.00	430300.00	0.2726
	471	Australian Collectables, Ltd	Australia	60300.00	430300.00	0.1401
	333	Australian Gift Network, Co	Australia	51600.00	430300.00	0.1199
	276	Anna's Decorations, Ltd	Australia	107800.00	430300.00	0.2505
	282	Souvenirs And Things Co.	Australia	93300.00	430300.00	0.2168
	452	Mini Auto Werke	Austria	45300.00	117000.00	0.3872
	382	Salzburg Collectables	Austria	71700.00	117000.00	0.6128
	314	Petit Auto	Belgium	79900.00	103400.00	0.7727
	381	Royale Belge	Belgium	23500.00	103400.00	0.2273
	202	Canadian Gift Exchange Network	Canada	90300.00	228600.00	0.3950
	233	Qu & Bec Home Shopping Netw...	Canada	48700.00	228600.00	0.2130
	260	Royal Canadian Collectables, Ltd.	Canada	89600.00	228600.00	0.3920
	145	Danish Wholesale Imports	Denmark	83400.00	204200.00	0.4084
	227	Heintze Collectables	Denmark	120800.00	204200.00	0.5916
	186	Toys of Finland, Co.	Finland	96500.00	285800.00	0.3376
	334	Suominen Souvenirs	Finland	98800.00	285800.00	0.3457
	311	Oulu Toy Supplies, Inc.	Finland	90500.00	285800.00	0.3167

QNO: 17

```

170  -- QNO: 17
171  • CREATE VIEW CustomerOrders AS
172  SELECT
173      cu.customerName,
174      CONCAT_WS(' ', cu.addressLine1, cu.addressLine2, cu.city, cu.state, cu.postalCode, cu.country) AS completeAddress,
175      COUNT(od.orderNumber) AS totalOrders
176  FROM customers cu
177  LEFT JOIN orders od ON od.customerNumber = cu.customerNumber
178  GROUP BY cu.customerNumber, cu.customerName, completeAddress;
179
180  • select * from CustomerOrders order by totalOrders desc;
181

```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	customerName	completeAddress	totalOrders
▶	Euro+ Shopping Channel	C/Moralzarzal, 86, Madrid, 28034, Spain	26
	Mini Gifts Distributors Ltd.	5677 Strong St., San Rafael, CA, 97562, USA	17
	Australian Collectors, Co.	636 St Kilda Road, Level 3, Melbourne, Victoria,...	5
	Danish Wholesale Imports	Vinb t-tet 34, Kobenhavn, 1734, Denmark	5
	Dragon Souvenirs, Ltd.	Bronz Sok., Bronz Apt. 3/6 Tesvikiye, Singapore...	5
	Down Under Souvenirs, Inc	162-164 Grafton Road, Level 2, Auckdand , Ne...	5
	Reims Collectables	59 rue de l'Abbaye, Reims, 51100, France	5
	La Rochelle Gifts	67, rue des Cinquante Otages, Nantes, 44000, ...	4
	Baane Mini Imports	Erling Skakkes gate 78, Stavervn, 4110, Norway	4
	Blauer See Auto, Co.	Lyonerstr. 34, Frankfurt, 60528, Germany	4
	Land of Toys Inc.	897 Long Airport Avenue, NYC, NY, 10022, USA	4
	Volvo Model Replicas, Co	Berguvsv t-rigen 8, Lule t-N, S-958 22, Sweden	4
	Musde Machine Inc	4092 Furth Circle, Suite 400, NYC, NY, 10022, ...	4
	Diecast Classics Inc.	7586 Pompton St., Allentown, PA, 70267, USA	4
	Technics Stores Inc.	9408 Furth Circle, Burlingame, CA, 94217, USA	4

QNO: 18

Before:

```
191 • select * from customers where customerNumber=103;
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
▶	103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Royale	NULL	Nantes	NULL	44000	France	1370	21000.00

Query:

update customers

set

customerName='Hero Kto Mah',

phone='9844556677'

where customerNumber=103;

Results:

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:42:59	update customers set customerName='Hero Kto Mah', phone='9844556677' where customerNumber=103	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec

```
191 • select * from customers where customerNumber=103;
...
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
103	Hero Kto Mah	Schmitt	Carine	9844556677	54, rue Royale	NULL	Nantes	NULL	44000	France	1370	21000.00

QNO: 19

```
196  -- QNO: 19
197 • DELETE FROM payments
198   WHERE amount< 20000;
199
```

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	18:34:18	DELETE FROM payments WHERE amount < 20000	78 row(s) affected	0.015 sec

QNO: 20

```
203  -- QNO: 20
204 • INSERT INTO payments (customerNumber, checkNumber, paymentDate, amount)
205   VALUES (103, 'CHK12345', '2025-05-23', 25000.00);
```

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	18:38:38	DELETE FROM payments WHERE amount < 20000	0 row(s) affected	0.000 sec

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	18:38:38	DELETE FROM payments WHERE amount < 20000	0 row(s) affected	0.000 sec