

KIRAN MEDAR
SQL PROJECT
DATABASE : CLASSICMODELS

1. List the customers in the United States with a credit limit higher than \ \$1000.

QUERY: SELECT *
FROM Customers
WHERE Country = 'USA'
AND CreditLimit > 1000;

OUTPUT:

Result Grid									
Filter Rows:									
Edit: Export/Import: Wrap Cell Content:									
	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country
▶	King	Jean	7025551838	8489 Strong St.	NULL	Las Vegas	NV	83030	USA
	Nelson	Susan	4155551450	5677 Strong St.	NULL	San Rafael	CA	97562	USA
	Murphy	Julie	6505555787	5557 North Pendale Street	NULL	San Francisco	CA	94217	USA
	Lee	Kwai	2125557818	897 Long Airport Avenue	NULL	NYC	NY	10022	USA
	Young	Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY	10022	USA
	Leong	Kelvin	2155551555	7586 Pompton St.	NULL	Allentown	PA	70267	USA
	Hashimoto	Juri	6505556809	9408 Furth Circle	NULL	Burlingame	CA	94217	USA
	Tseng	Jerry	6175555555	4658 Baden Av.	NULL	Cambridge	MA	51247	USA
	King	Julie	2035552570	25593 South Bay Ln.	NULL	Bridgewater	CT	97562	USA
	Frick	Michael	2125551500	2678 Kingston Rd.	Suite 101	NYC	NY	10022	USA
	Taylor	Leslie	6175558428	16780 Pompton St.	NULL	Brickhaven	MA	58339	USA
	Barajas	Miguel	6175557555	7635 Spinnaker Dr.	NULL	Brickhaven	MA	58339	USA
	Young	Julie	6265557265	78934 Hillside Dr.	NULL	Pasadena	CA	90003	USA
	Young	Mary	3105552373	4097 Douglas Av.	NULL	Glendale	CA	92561	USA
	Thompson	Valarie	7605558146	361 Furth Circle	NULL	San Diego	CA	91217	USA
	Hernandez	Marta	6175558555	39323 Soinnaker Dr.	NULL	Cambridge	MA	51247	USA

2. List the employee codes for sales representatives of customers in Spain, France and Italy.
 Make another query to list the names and email addresses of those employees.

QUERY: SELECT Firstname,Lastname,email
FROM Employees
WHERE EmployeeNumber In(
SELECT DISTINCT SalesrepEmployeeNumber
FROM Customers
WHERE Country IN ('Spain', 'France', 'Italy'));

OUTPUT:

Result Grid			
Filter Rows:			
Export:			
	Firstname	Lastname	email
▶	Loui	Bondur	lbondur@classicmodelcars.com
	Gerard	Hernandez	ghernande@classicmodelcars.com
	Pamela	Castillo	pcastillo@classicmodelcars.com
	Martin	Gerard	mgerard@classicmodelcars.com

3. Change the job title "Sales Rep" to "Sales Representative"

QUERY : **Alter Table Customers**
 Change Column salesRepEmployeeNumber
 Sales_Rep int null;

OUTPUT: Select * From Customers;

Result Grid									
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:			
	addressLine1	addressLine2	city	state	postalCode	country	Sales_Rep	creditLimit	customerLocation
▶	54, rue Royale	NULL	Nantes	NULL	44000	France	1370	21000	BLOB
	8489 Strong St.	NULL	Las Vegas	NV	83030	USA	1166	71800	BLOB

5. Show a list of employees who are not sales representatives

QUERY : **SELECT ***
 FROM Employees
 WHERE EmployeeNumber != 'Sales Representative';

OUTPUT:

Result Grid									
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:			
	employeeNumber	lastName	firstName	extension	email	reportsTo	jobTitle	officeCode	
▶	1002	Murphy	Diane	x5800	dmurphy@classicmodelcars.com	NULL	President	1	
	1056	Patterson	Mary	x4611	mpatterso@classicmodelcars.com	1002	VP Sales	1	
	1076	Firrelli	Jeff	x9273	jfirrelli@classicmodelcars.com	1002	VP Marketing	1	
	1088	Patterson	William	871	wpatterson@classicmodelcars.com	1056	Sales Manager (APAC)	6	
	1102	Bondur	Gerard	x5408	gbondur@classicmodelcars.com	1056	Sale Manager (EMEA)	4	
	1143	Bow	Anthony	x5428	abow@classicmodelcars.com	1056	Sales Manager (NA)	1	
	1165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1143	Sales Rep	1	
	1166	Thompson	Leslie	x4065	lthompson@classicmodelcars.com	1143	Sales Rep	1	
	1188	Firrelli	Julie	x2173	jfirrelli@classicmodelcars.com	1143	Sales Rep	2	
	1216	Patterson	Steve	x4334	spatterson@classicmodelcars.com	1143	Sales Rep	2	
	1286	Tseng	Foon Yue	x2248	ftseng@classicmodelcars.com	1143	Sales Rep	3	
	1323	Vanauf	George	x4102	gvanauf@classicmodelcars.com	1143	Sales Rep	3	
	1337	Bondur	Loui	x6493	lbondur@classicmodelcars.com	1102	Sales Rep	4	
	1370	Hernandez	Gerard	x2028	ghernande@classicmodelcars.com	1102	Sales Rep	4	

6. Show a list of customers with "Toys" in their name

QUERY : **Select * From Customers**
 WHERE CustomerName = '%Toys%';




OUTPUT :

Result Grid	
Filter Rows:	
Export:	
	CUSTOMERNAME
▶	Land of Toys Inc.
	Toys of Finland, Co.
	Toys4GrownUps.com
	Boards & Toys Co.

7. List the 5 most expensive products from the "Planes" product line

```
QUERY : SELECT Productline,Buyprice,productname
        FROM Products
        WHERE Productline = 'Planes'
        ORDER BY buyPrice DESC
        LIMIT 5;
```




OUTPUT:

Result Grid			Filter Rows: <input type="text"/>	Export: 
	Productline	Buyprice	productname	
▶	Planes	77.27	1980s Black Hawk Helicopter	
	Planes	68.8	America West Airlines B757-200	
	Planes	66.74	1928 British Royal Navy Airplane	
	Planes	59.33	ATA: B757-300	
	Planes	54.4	F/A 18 Hornet 1/72	

8. Identify the products that are about to run out of stock (quantity in stock < 100)

```
QUERY:Select quantityInstock,ProductName From Products
        Where quantityInStock < 100;
```

OUTPUT:

Result Grid			Filter Rows: <input type="text"/>	Export: 
	quantityInstock	ProductName		
▶	68	1968 Ford Mustang		
	15	1960 BSA Gold Star DBD34		

9. List 10 products in the "Motorcycles" category with the lowest buy price and more than 1000 units in stock

QUERY : Select Productline,buyprice,QuantityInStock From Products
Where ProductLine = 'Motorcycles' And QuantityInstock > 1000
Order by buyprice Asc
Limit 10;

OUTPUT :

Result Grid		Filter Rows:	
	Productline	buyprice	QuantityInStock
►	Motorcycles	24.14	9241
	Motorcycles	24.23	4357
	Motorcycles	32.95	7689
	Motorcycles	47.1	6840
	Motorcycles	48.81	7933
	Motorcycles	56.13	3341
	Motorcycles	60.86	7003
	Motorcycles	66.27	9997
	Motorcycles	68.99	6625
	Motorcycles	91.02	5582

10. Prepare a list of offices sorted by country, state, city.

QUERY : SELECT Country, State,city
FROM Offices;



OUTPUT :

Result Grid		Filter Rows:	
	Country	State	city
►	USA	CA	San Francisco
	USA	MA	Boston
	USA	NY	NYC
	France	NULL	Paris
	Japan	Chiyoda-Ku	Tokyo
	Australia	NSW	Sydney
	UK	NULL	London

11. How many employees are there in the company?

QUERY : Select Count(EmployeeNumber) From Employees;



OUTPUT :

Result Grid			Filter Rows:
	Count(EmployeeNumber)		
▶	23		

12. What is the total of payments received?

QUERY : Select Sum(amount) From Payments;

OUTPUT :

Result Grid			Filter Rows:
	Sum(amount)		
	8853839.230000004		

13. List the product lines that contain 'CLASSIC Cars'.

QUERY : Select Productline FRom Products

where Productline = 'Classic Cars';



OUTPUT:

[illegible]

14. Report total payments for October 28, 2004.






QUERY : **SELECT SUM(amount)**
FROM Payments
WHERE Paymentdate = '2004-10-28';

OUTPUT :

Result Grid			Filter
	SUM(amount)		
▶	47411.33		

15. Report those payments greater than \ \$100,000.

QUERY : **Select * From Payments where Amount > 100000;**
OUTPUT :

Result Grid			Filter Rows:		Edit:			
	checkNumber	paymentDate	amount	customerNumber				
▶	AE215433	2005-03-05 00:00:00	101244.59	124				
	ID10962	2004-12-31 00:00:00	116208.4	141				
	JE105477	2005-03-18 00:00:00	120166.58	141				
	KI131716	2003-08-15 00:00:00	111654.4	124				
	KM172879	2003-12-26 00:00:00	105743	148				
*	NULL	NULL	NULL	NULL				

16. List the products in each product line.

QUERY : **SELECT Productline, Productname**
FROM Products
ORDER BY Productline, Productname;

OUTPUT :

Result Grid			Filter Rows:	Export
	Productline	Productname		
	Classic Cars	2001 Ferrari Enzo		
	Classic Cars	2002 Chevy Corvette		
	Motorcycles	1936 Harley Davidson El Knucklehead		
	Motorcycles	1957 Vespa GS150		
	Motorcycles	1960 BSA Gold Star DBD34		
	Motorcycles	1969 Harley Davidson Ultimate Cho...		
	Motorcycles	1974 Ducati 350 Mk3 Desmo		
	Motorcycles	1982 Ducati 900 Monster		
	Motorcycles	1982 Ducati 996 R		
	Motorcycles	1996 Moto Guzzi 1100i		
	Motorcycles	1997 BMW F650 ST		
	Motorcycles	1997 BMW R 1100 S		
	Motorcycles	2002 Suzuki XREO		
	Motorcycles	2002 Yamaha YZR M1		
	Motorcycles	2003 Harley-Davidson Eagle Drag Bike		
	Planes	1900s Vintage Bi-Plane		
	Planes	1900s Vintage Tri-Plane		

17. How many products in each product line?

QUERY : SELECT Count(Productline)
FROM Products
GROUP BY Productline;

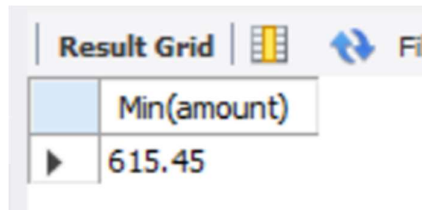
OUTPUT :

Result Grid			Filter Rows:
	Productline	Count(Productline)	
▶	Classic Cars	38	
	Motorcycles	13	
	Planes	12	
	Ships	9	
	Trains	3	
	Trucks and Buses	11	
	Vintage Cars	24	

18.What is the minimum payment received?

QUERY : Select Min(amount) From Payments;

OUTPUT :



The screenshot shows a 'Result Grid' with a toolbar containing icons for a grid, a refresh button, and a filter icon. The grid has two rows: the first row contains the text 'Min(amount)' and the second row contains the value '615.45'.

Min(amount)
615.45

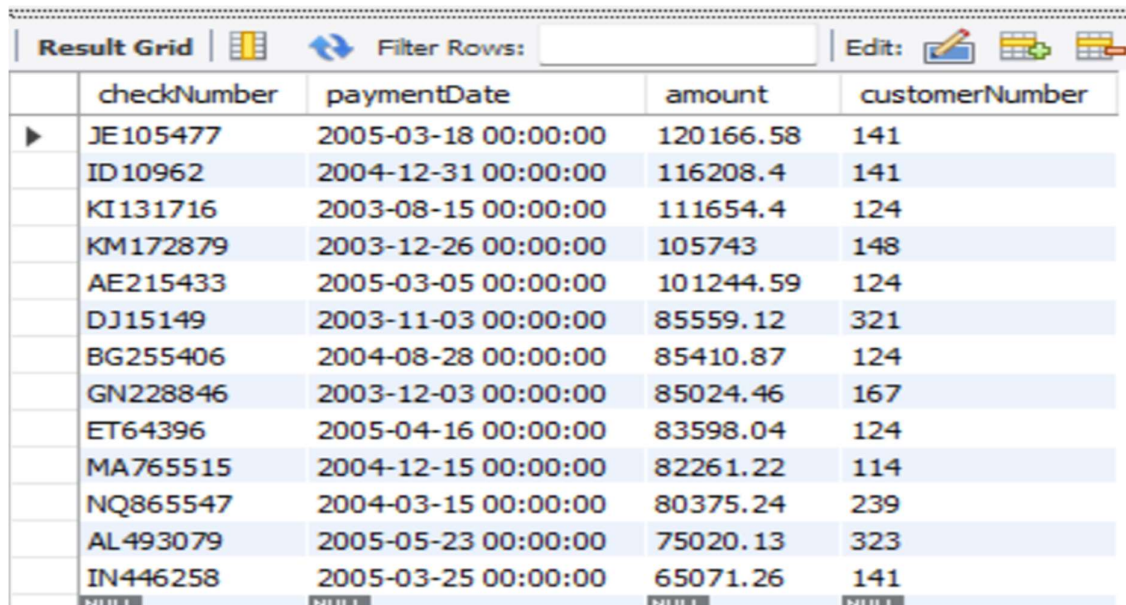
19. List all payments greater than twice the average payment.

QUERY : SELECT * FROM Payments

WHERE amount > (SELECT AVG(amount) * 2 FROM Payments)

ORDER BY amount DESC;

OUTPUT :



The screenshot shows a 'Result Grid' with a toolbar containing icons for a grid, a refresh button, a filter icon, and an 'Edit' button. The grid displays a list of payments with columns: checkNumber, paymentDate, amount, and customerNumber. The data is sorted by amount in descending order.

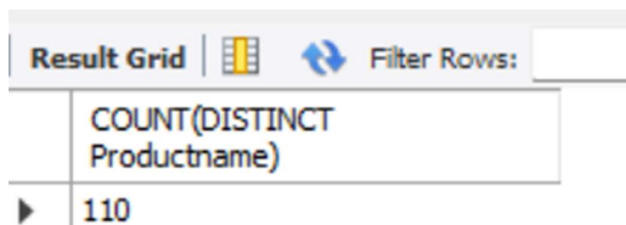
	checkNumber	paymentDate	amount	customerNumber
▶	JE105477	2005-03-18 00:00:00	120166.58	141
	ID10962	2004-12-31 00:00:00	116208.4	141
	KI131716	2003-08-15 00:00:00	111654.4	124
	KM172879	2003-12-26 00:00:00	105743	148
	AE215433	2005-03-05 00:00:00	101244.59	124
	DJ15149	2003-11-03 00:00:00	85559.12	321
	BG255406	2004-08-28 00:00:00	85410.87	124
	GN228846	2003-12-03 00:00:00	85024.46	167
	ET64396	2005-04-16 00:00:00	83598.04	124
	MA765515	2004-12-15 00:00:00	82261.22	114
	NQ865547	2004-03-15 00:00:00	80375.24	239
	AL493079	2005-05-23 00:00:00	75020.13	323
	IN446258	2005-03-25 00:00:00	65071.26	141

20. How many distinct products does ClassicModels sell?

QUERY :SELECT COUNT(DISTINCT Productname)

FROM Products;

OUTPUT :



The screenshot shows a 'Result Grid' with a toolbar containing icons for a grid, a refresh button, a filter icon, and a 'Filter Rows' input field. The grid has two rows: the first row contains the text 'COUNT(DISTINCT Productname)' and the second row contains the value '110'.

COUNT(DISTINCT Productname)
110

21. Report the name and city of customers who don't have sales representatives?

QUERY : SELECT Customername, City
FROM Customers
WHERE Sales_rep IS NULL;

OUTPUT :

Result Grid			Filter Rows:
	Customername	City	
▶	Havel & Zbyszek Co	Warszawa	
	Porto Imports Co.	Lisboa	
	Asian Shopping Network, Co	Singapore	
	Nat	Cunewalde	
	ANG Resellers	Madrid	
	Messner Shopping Network	Frankfurt	
	Franken Gifts, Co	Manheim	
	BG&E Collectables	Fribourg	
	Schuyler Imports	Amsterdam	
	Der Hund Imports	Berlin	
	Cramer Spezialit	Brandenburg	
	Asian Treasures, Inc.	Cork	
	SAR Distributors, Co	Hatfield	
	Kommission Auto	Passau	
	Lisboa Souvenirs, Inc	Lisboa	
	Stuttgart Collectable Excha...	Stuttgart	
	Feuer Online Stores, Inc	Leipzig	

22. Which orders have a value greater than \$5,000?

QUERY : SELECT ordernumber, priceeach
FROM orderdetails
WHERE Priceeach > 5000;

OUTPUT :

Result Grid		Filter Rows:
ordernumber	priceeach	

23. What are the names of executives with VP or Manager in their title? Use the CONCAT function to combine the employee's first name and last name into a single field for reporting.

QUERY : SELECT CONCAT(Firstname, ' ', Lastname) Jobtitle
 FROM Employees
 WHERE Jobtitle LIKE '%VP%' OR Jobtitle LIKE '%Manager%';

OUTPUT :

Result Grid		Filter
Jobtitle		
Mary Patterson		
Jeff Firrelli		
William Patterson		
Gerard Bondur		
Anthony Bow		

24. Report the total number of payments received before October 28, 2004.

QUERY : SELECT Count(CustomerNumber)
 FROM Payments
 WHERE Paymentdate < '2004-10-28';

OUTPUT :

Result Grid		Filter Rows:
Count(CustomerNumber)		
189		

25 .Report the number of customers who have made payments before October 28, 2004.

QUERY : SELECT COUNT(PAYMENTDATE) As Payments
 FROM Payments
 WHERE Paymentdate < '2004-10-28';



OUTPUT :

Result Grid		Filter Row
Payments		
189		

26. Retrieve the list of customer numbers for customers who have made a payment before October 28, 2004.

**QUERY : Select Customernumber,paymentdate From Payments
where Paymentdate <= '2004-10-28';**


OUTPUT :

Result Grid   Filter Rows: <input type="text"/>		
	Customernumber	paymentdate
▶	471	2004-07-28 00:00:00
	299	2003-10-24 00:00:00
	172	2004-09-09 00:00:00
	344	2003-11-24 00:00:00
	242	2003-11-22 00:00:00
	357	2003-12-16 00:00:00
	487	2003-09-28 00:00:00

27. Retrieve details of all the customers in the United States who have made payments between April 1st 2003 and March 31st 2004.

**QUERY : SELECT c. customernumber, c. customername, c.city, c.state,
p. paymentdate, p. amount
FROM customers c
JOIN payments p ON c. customernumber = p. checknumber
WHERE c.country = 'United States'
AND p. paymentdate BETWEEN '2003-04-01' AND '2004-03-31';**



OUTPUT :

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 						
	customernumber	customername	city	state	paymentdate	amount

28. Find the total number of payments made by each customer before October 28, 2004.

QUERY : Select Customernumber,count(paymentdate) From Payments
where paymentdate < '2004-10-28' group by customernumber;



OUTPUT :

Result Grid   Filter Rows: <input type="text"/>		
	Customernumber	count(paymentdate)
▶	496	1
	495	2
	489	2
	487	2
	486	2
	484	2
	475	2

29. Find the total amount paid by each customer payment before October 28, 2004.

QUERY : Select Customernumber,sum(amount) From Payments
where paymentdate < '2004-10-28' group by customernumber;




OUTPUT :

Result Grid   Filter Rows: <input type="text"/>		
	Customernumber	sum(amount)
▶	103	20638.22
	112	65989.86
	114	98323.85
	119	47924.19
	121	51710.329999999994
	124	296563.25
	128	68471.44

31. Find the total no. of payments and total payment amount for each customer for payments made before October 28, 2004.

QUERY : Select Customernumber, Count(paymentdate),sum(amount) From Payments
where paymentdate < '2004-10-28' group by customernumber;




OUTPUT :

Result Grid   Filter Rows: <input type="text"/> Export:  V			
	Customernumber	Count(paymentdate)	sum(amount)
▶	103	2	20638.22
	112	2	65989.86
	114	3	98323.85
	119	1	47924.19
	121	2	51710.329999999994
	124	5	296563.25
	128	3	68471.44

32. Modify the above query to also show the minimum, maximum and average payment value for each customer.

QUERY : Select Customernumber, min(amount),max(amount), avg(amount)
From Payments
group by customernumber;



OUTPUT :

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell				
	Customernumber	min(amount)	max(amount)	avg(amount)
▶	103	1676.14	14571.44	7438.12
	112	14191.12	33347.88	26726.993333333332
	114	7565.08	82261.22	45146.267499999994
	119	19501.82	49523.67	38983.226666666667
	121	1491.38	50218.95	26056.1975
	124	11044.3	111654.4	64909.804444444445
	128	7466.32	33820.62	18984.440000000002

33. List the largest single payment done by every customer in the year 2004, ordered by the transaction value (highest to lowest).

```
QUERY : SELECT customernumber, MAX(amount) AS largest_payment
        FROM payments
        WHERE YEAR(paymentdate) = 2004
        GROUP BY customernumber
        ORDER BY largest_payment DESC;
```

OUTPUT :

Result Grid   Filter Rows: <input type="text"/>		
	customernumber	largest_payment
▶	141	116208.4
	124	85410.87
	114	82261.22
	239	80375.24
	157	63357.13
	298	61402
	259	61234.67

34. Show the total payments received month by month for every year.

QUERY : SELECT

**YEAR(paymentdate) AS paymentyear,
MONTH(paymentdate) AS paymentmonth,
count(paymentdate) AS totalpayments**

FROM

payments



GROUP BY

YEAR(paymentdate), MONTH(paymentdate)

ORDER BY

paymentyear, paymentmonth;

OUTPUT :

Result Grid   Filter Rows: <input type="text"/>			
	paymentyear	paymentmonth	totalpayments
▶	2003	1	3
	2003	2	3
	2003	3	5
	2003	4	7
	2003	5	6
	2003	6	5
	2003	7	8
	2003	8	6
	2003	9	5
	2003	10	13
	2003	11	19
	2003	12	20
	2004	1	6
	2004	2	6
	2004	3	11
	2004	4	10
	2004	5	8