



1. **SELECT * FROM Payments LIMIT 10;** List all the records in the Payments table. Display only the first 10 rows of results.

customerNumber	checkNumber	paymentDate	amount
183	HQ336336	2004-10-19 00:00:00	6866.79
183	JM555205	2003-06-05 00:00:00	14571.44
183	OM314933	2004-12-18 00:00:00	1676.14
112	B0864823	2004-12-17 00:00:00	14191.12
112	HQ55022	2003-06-06 00:00:00	33641.98
112	ND748579	2004-08-20 00:00:00	33347.68
114	GG31455	2003-05-20 00:00:00	43864.83
114	MA765515	2004-12-15 00:00:00	82261.22
114	NP603840	2003-05-31 00:00:00	7565.00
114	NR27552	2004-03-10 00:00:00	44894.74

10 rows in set (0.00 sec)

2. **SELECT checkNumber FROM Payments LIMIT 10;** Display all the values for *checkNumber* in the *Payments* table.

checkNumber
HQ336336
JM555205
OM314933
B0864823
HQ55022
ND748579
GG31455
MA765515
NP603840
NR27552

3. **SELECT paymentDate FROM Payments LIMIT 10;** Display all the values for *paymentDate* in the *Payments*

paymentDate
2004-10-19 00:00:00
2003-06-05 00:00:00
2004-12-18 00:00:00
2004-12-17 00:00:00
2003-06-06 00:00:00
2004-08-20 00:00:00
2003-05-20 00:00:00
2004-12-15 00:00:00
2003-05-31 00:00:00
2004-03-10 00:00:00

4. **SELECT amount FROM Payments LIMIT 10;** Display all the values for *amount* in the *Payments* table.

5. **SELECT customerNumber FROM Payments LIMIT 10;** Display all the values for *customerNumber* in the *Payments* table.

6. **SELECT checkNumber FROM Payments ORDER BY checkNumber LIMIT 10;** Display all the values for *checkNumber* in the *Payments* table. Sort the results by *checkNumber*.

7. **SELECT checkNumber FROM Payments ORDER BY checkNumber DESC LIMIT 10;** Display all the values for *checkNumber* in the *Payments* table. Sort the results by *checkNumber* in descending order.



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| 8. SELECT paymentDate FROM Payments ORDER BY paymentDate LIMIT 10; | Display all the values for *paymentDate* in the *Payments* table. Sort the results by *paymentDate*. |
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| 9. SELECT paymentDate FROM Payments ORDER BY paymentDate DESC LIMIT 10; | Display all the values for *paymentDate* in the *Payments* table. Sort the results by *paymentDate* in descending order. |
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| 10. SELECT customerNumber FROM Payments ORDER BY customerNumber LIMIT 10; | Display all the values for *customerNumber* in the *Payments* table. Sort the results by *customerNumber*. |
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| 11. SELECT customerNumber FROM Payments ORDER BY customerNumber DESC LIMIT 10; | Display all the values for *customerNumber* in the *Payments* table. Sort the results by *customerNumber* in descending order. |
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| 12. SELECT checkNumber, paymentDate FROM Payments LIMIT 10; | Display the values for *checkNumber* and *paymentDate* in the *Payments* table. |
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| 13. SELECT checkNumber, amount FROM Payments LIMIT 10; | Display the values for *checkNumber* and *amount* in the *Payments* table. Display only the first |
| <hr/> | |
| 14. SELECT checkNumber, customerNumber FROM Payments LIMIT 10; | Display the values for *checkNumber* and *customerNumber* in the *Payments* table. |
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| 15. SELECT DISTINCT(customerNumber) FROM Payments LIMIT 10; | Display a list of unique *customerNumber* values in the *Payments* table. |
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| 16. SELECT MIN(amount) AS 'Smallest Payment' FROM Payments; | Display the smallest *amount* value in the *Payments* table. Label the result 'Smallest Payment'. |
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+-----+
| Smallest Payment |
+-----+
|                615.45 |
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| 17. SELECT MAX(amount) AS "Largest Payment" FROM Payments; | Display the largest *amount* value in the *Payments* table. Label the result "Largest Payment" |
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| 18. SELECT AVG(amount) FROM Payments LIMIT 10; | Display the average *amount* value in the *Payments* table. |
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| 19. SELECT MIN(paymentDate) FROM Payments LIMIT 10; | Display the earliest *paymentDate* value in the *Payments* table. |
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| 20. SELECT MAX(paymentDate) FROM Payments LIMIT 10; | Display the latest *paymentDate* value in the *Payments* table. |
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| 21. SELECT customerNumber, SUM(amount) FROM Payments GROUP BY customerNumber LIMIT 10; | Display the *customerNumber* and the total payment *amount* assigned to that customerNumber in the *Payments* table. Display only the first 10 rows of results. |
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| 22. SELECT customerNumber, AVG(amount) FROM Payments GROUP BY customerNumber LIMIT 10; | Display the *customerNumber* and the average payment *amount* assigned to that customerNumber in the *Payments* table. |
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| 23. SELECT COUNT(*) FROM Payments LIMIT 10; | Calculate the number of rows in the Payments table. |
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| 24. SELECT COUNT(DISTINCT(customerNumber)) LIMIT 10; | Count the number of unique *customerNumber* values in the *Payments* table. |
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| 25. SELECT customerNumber FROM Payments WHERE customerNumber < 200 LIMIT 10; | Display the *customerNumber* values for those customerNumbers in the *Payments* table that have values less than 200. |
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| 26. SELECT customerNumber FROM Payments WHERE customerNumber BETWEEN 200 AND 400 LIMIT 10; | Display the *customerNumber* values for those customerNumbers in the *Payments* table that have values between 200 and 400. |
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| 27. | |
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SELECT customerNumber FROM Payments WHERE customerNumber > 400 LIMIT 10; Display the *customerNumber* values for those customerNumbers in the *Payments* table that have values greater than 400.

28. **SELECT paymentDate FROM Payments WHERE paymentDate < '2003-12-31' LIMIT 10;** Display the *paymentDate* values for those records in the *Payments* table in which the payment date is earlier than 12/31/2003.

29. **SELECT paymentDate FROM Payments WHERE paymentDate BETWEEN '2003-12-31' AND '2004-12-31' LIMIT 10;** Display the *paymentDate* values for those records in the *Payments* table in which the payment date is between 12/31/2003 and 12/31/2004.

30. **SELECT paymentDate FROM Payments WHERE paymentDate = '2005-02-02' LIMIT 10;** Display the *paymentDate* values for those records in the *Payments* table in which the payment date is 02/02/2005.

31. **SELECT amount FROM Payments WHERE amount < (SELECT AVG(amount) FROM Payments) ORDER BY amount DESC LIMIT 10 LIMIT 10;** Display the *amount* values for those records in the *Payments* table in which the *amount* value is less than the average *amount* value in the Payments table. Sort the results by payment *amount* from highest to lowest amount. Display only the first 10 rows of results.

amount
32260.16
32239.47
32077.44
31835.36
31670.37
31428.21
31310.09
31102.85
30293.77
30253.75

32. **SELECT amount FROM Payments WHERE amount > (SELECT AVG(amount) FROM Payments) LIMIT 10;** Display the *amount* values for those records in the *Payments* table in which the *amount* value is less than the average *amount* value in the Payments table.



amount
32641.98
33347.88
45864.03
82261.22
44894.74
47924.19
49523.67
50218.95
34638.14
101244.59

33. **SELECT c.customerName, p.paymentDate, p.amount FROM Customers c JOIN Payments p ON p.customerNumber = c.customerNumber ORDER BY c.customerName LIMIT 10;**

Display the *customerName*, *paymentDate*, and *amount* from the *Payments* and *Customers* tables. Display only the first 10 rows of results.

customerName	paymentDate	amount
Alpha Cognac	2003-11-22 00:00:00	33818.34
Alpha Cognac	2005-06-03 00:00:00	12432.32
Alpha Cognac	2003-07-21 00:00:00	14232.7
Amica Models & Co.	2004-09-19 00:00:00	33924.24
Amica Models & Co.	2004-09-04 00:00:00	40290.99
Anna's Decorations, Ltd	2005-02-09 00:00:00	27803.78
Anna's Decorations, Ltd	2003-11-13 00:00:00	30547.19
Anna's Decorations, Ltd	2003-09-28 00:00:00	41554.73
Anna's Decorations, Ltd	2005-04-30 00:00:00	20846.52
Atelier graphique	2004-10-19 00:00:00	6866.78

34. **SELECT c.customerName, c.phone, MAX(p.paymentDate) AS 'Last Payment Date' FROM Customers c JOIN Payments p ON p.customerNumber = c.customerNumber GROUP BY c.customerName LIMIT 10;**

Display the *customerName*, *phone* and latest *paymentDate* for each customer in the *Payments* and *Customers* tables. Label the latest paymentDate column as *Last Payment Date*. Display only the first 10 rows of results.

customerName	phone	Last Payment Date
Alpha Cognac	61.77.6555	2005-06-03 00:00:00
Amica Models & Co.	815-4980555	2004-09-19 00:00:00
Anna's Decorations, Ltd	82 9039 9035	2005-04-30 00:00:00
Atelier graphique	48.32.2555	2004-12-18 00:00:00
Australian Collectables, Ltd	62-6-3844-6555	2004-07-20 00:00:00
Australian Collectors, Co.	83 9528 4355	2004-12-15 00:00:00
Australian Gift Networks, Co	62-7-3844-6555	2005-03-01 00:00:00
Auto Associ	38-59.8555	2004-10-22 00:00:00
Auto Canal+ Perist	111 47.55.6555	2005-04-23 00:00:00
Auto-Moto Classica Inc.	6175558428	2004-12-06 00:00:00

35. **SELECT country, COUNT(*) FROM Customers GROUP BY country ORDER BY country LIMIT 10;**

Display a list of *country* values in the *Customers* table along with the *number of customers* in each country. The list should be in alphabetical order. Display only the first 10 rows of results.

country	COUNT(*)
Australia	5
Austria	2
Belgium	2
Canada	3
Denmark	2
Finland	3
France	12
Germany	13
Hong Kong	1
Ireland	2

36.



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**SELECT c.country,
COUNT(p.checkNumber) AS
'Payments' FROM Customers
c JOIN Payments p ON p.cus-
tomerNumber = c.customer-
Number GROUP BY c.coun-
try ORDER BY c.country LIM-
IT 10;**

Display a list of *country* values in the *Customers* table along with the *number of payments* for each country. Label the number of payments column *'Payments'*. The list should be in alphabetical order. Display only the first 10 rows of results.

country	Payments
Australia	16
Austria	6
Belgium	6
Canada	7
Denmark	6
Finland	9
France	35
Germany	7
Hong Kong	1
Ireland	2

**37. SELECT orderNumber, order-
Date FROM Orders LIMIT 10;**

Display a list of *orderNumber* and *order-
Date* values from the *Orders* table. Display
only the first 10 rows of results.

orderNumber	orderDate
10100	2003-01-06 00:00:00
10101	2003-01-09 00:00:00
10102	2003-01-10 00:00:00
10103	2003-01-29 00:00:00
10104	2003-01-31 00:00:00
10105	2003-02-11 00:00:00
10106	2003-02-17 00:00:00
10107	2003-02-24 00:00:00
10108	2003-03-03 00:00:00
10109	2003-03-10 00:00:00

**38. SELECT c.customerName,
o.orderNumber, o.orderDate
FROM Customers c JOIN Or-
ders o ON o.customerNum-
ber = c.customerNumber LIM-
IT 10;**

Display the *customerName*, *orderNum-
ber*, and *orderDate* values from the *Cus-
tomers* and *Orders* tables. Display only the
first 10 rows of results.

customerName	orderNumber	orderDate
Online Discount Creations Co.	10100	2003-01-06 00:00:00
Blauer See Auto, Co.	10101	2003-01-09 00:00:00
Vitachrome Inc.	10102	2003-01-10 00:00:00
Baume Mercier Imports	10103	2003-01-29 00:00:00
Euro Shopping Channel	10104	2003-01-31 00:00:00
Danish Wholesale Imports	10105	2003-02-11 00:00:00
Revelli Gifts	10106	2003-02-17 00:00:00
Land of Toys Inc.	10107	2003-02-24 00:00:00
Cruz & Sons Co.	10108	2003-03-03 00:00:00
Motor Mint Distributors Inc.	10109	2003-03-10 00:00:00

**39. SELECT o.orderNumber,
o.orderDate,
FORMAT(SUM(od.quantity-
Ordered*od.priceEach),2) AS
'Order Value' FROM Orders o
JOIN OrderDetails od ON
od.orderNumber =
o.orderNumber GROUP BY
o.orderNumber LIMIT 10;**

Display the *orderNumber*, *orderDate*,
and value of each order from the *Or-
ders* and *OrderDetails* tables. The *value*
of each order is calculated by multiplying
quantityOrdered by *priceEach*. Label the
calculated column "Order Value". Format the
order value column so that only two digits
are displayed after the decimal point. Display
only the first ten results.



orderNumber	orderDate	Order Value
10100	2003-01-06 00:00:00	10,223.83
10101	2003-01-09 00:00:00	10,549.81
10102	2003-01-10 00:00:00	5,494.78
10103	2003-01-29 00:00:00	50,210.95
10104	2003-01-31 00:00:00	40,206.20
10105	2003-02-11 00:00:00	53,959.21
10106	2003-02-17 00:00:00	52,151.81
10107	2003-02-24 00:00:00	22,292.62
10108	2003-03-03 00:00:00	51,001.22
10109	2003-03-10 00:00:00	25,833.14

40. **SELECT** c.customerName,
o.orderNumber,
FORMAT(SUM(od.quantity-
Ordered*od.priceEach),2) **AS**
'Order Value' **FROM**
Customers c **JOIN** Orders o
ON o.customerNumber =
c.customerNumber **JOIN**
OrderDetails od **ON**
od.orderNumber =
o.orderNumber **GROUP BY**
o.orderNumber **LIMIT 10**;

Display the *customerName*, *orderNum-
ber*, and value of each order from the *Or-
ders* and *OrderDetails* tables. The *value*
of each order is calculated by multiplying
quantityOrdered by *priceEach*. Label the
calculated column "Order Value". Format the
order value column so that only two digits
are displayed after the decimal point. Display
only the first ten results.

customerName	orderNumber	Order Value
Online Discast Creations Co.	10100	10,223.83
Blauer See Auto, Co.	10101	10,549.81
Vitachrome Inc.	10102	5,494.78
Baane Mini Imports	10103	50,210.95
Euro+ Shopping Channel	10104	40,206.20
Danish Wholesale Imports	10105	53,959.21
Rovelli Gifts	10106	52,151.81
Land of Toys Inc.	10107	22,292.62
Cruz & Sons Co.	10108	51,001.22
Motor Mint Distributors Inc.	10109	25,833.14

41. **SELECT** c.customerName,
FORMAT(SUM(od.quantity-
Ordered*od.priceEach),2) **AS**
'Value of All Orders' **FROM**
Customers c **JOIN** Orders o
ON o.customerNumber =
c.customerNumber **JOIN**
OrderDetails od **ON**
od.orderNumber =
o.orderNumber **GROUP BY**
c.customerNumber **LIMIT 10**;

Display the *customerName*, and value of
all orders made by that customer. The *val-
ue* of each order is calculated by multiplying
quantityOrdered by *priceEach*. Label the
calculated column "Value of All Orders". For-
mat the order value column so that only two
digits are displayed after the decimal point.
Display only the first ten results.

customerName	Value of All Orders
Atelier graphique	22,314.36
Signal Gift Stores	80,180.98
Australian Collectors, Co.	100,595.87
La Rochelle Gifts	158,573.12
Baane Mini Imports	104,224.79
Mini Gifts Distributors Ltd.	591,827.34
Blauer See Auto, Co.	75,937.76
Mini Wheels Co.	66,710.56
Land of Toys Inc.	149,005.15
Euro+ Shopping Channel	820,609.54

42. **SELECT** o.customerNumber,
od.orderNumber, pr.product-
Name **FROM** OrderDetails od
JOIN Products pr **ON** pr.pro-
ductCode = od.productCode
JOIN Orders o **ON** o.order-
Number = od.orderNumber
LIMIT 10;

Display the customerNumber, orderNumber,
and productName values for each order us-
ing the Orders, OrderDetails, and Products
tables. Display only the first ten results.

customerNumber	orderNumber	productName
363	10100	1917 Grand Touring Sedan
363	10100	1912 Ford Tour Car
363	10100	1932 Alfa Romeo RC2000 Spider Sport
363	10100	1936 Mercedes-Benz 500K Roadster
128	10101	1932 Model A Ford 3-Coupe
128	10101	1936 Mercedes-Benz 50K
128	10101	1939 Chevrolet Deluxe Coupe
128	10101	1936 Cadillac V-16 Presidential Limousine
101	10102	1937 Lincoln Berlinne
101	10102	1936 Mercedes-Benz 500K Special Roadster



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43. **SELECT e.lastName, b.lastName FROM Employees e JOIN Employees b ON e.reportsTo = b.employeeNumber;**

Display the *lastName* of each Employee followed by the lastName of the Employee they report to. Display only the first ten results.

lastName	lastName
Patterson	Murphy
Firrelli	Murphy
Patterson	Patterson
Bondur	Patterson
Bow	Patterson
Jennings	Bow
Thompson	Bow
Firrelli	Bow
Patterson	Bow
Tseng	Bow

44. **SELECT b.firstName, b.lastName, e.firstName, e.lastName FROM Employees e JOIN Employees b ON e.reportsTo = b.employeeNumber ORDER BY b.lastName LIMIT 10;**

Display the *firstName* and *lastName* of each manager followed by the *firstName* and *lastName* of each employee they supervise. Sort the results by the *lastName* of each manager. Display only the first ten results.

firstName	lastName	firstName	lastName
Gerard	Bondur	Pamela	Castillo
Gerard	Bondur	Gerard	Hernandez
Gerard	Bondur	Lou	Bondur
Gerard	Bondur	Martin	Gerard
Gerard	Bondur	Barry	Jones
Gerard	Bondur	Larry	Bott
Anthony	Bow	Steve	Patterson
Anthony	Bow	Julie	Firrelli
Anthony	Bow	Leslie	Thompson
Anthony	Bow	Leslie	Jennings