

1. SELECT DISTINCT city FROM customers WHERE country = 'Spain'
ORDER BY city ASC;

city
Barcelona
Madrid
Sevilla

2. SELECT employeeNumber,lastName,firstName FROM employees WHERE
officeCode = (SELECT officeCode FROM offices WHERE city = "Paris");

employeeNumber	lastName	firstName
1102	Bondur	Gerard
1337	Bondur	Loui
1370	Hernandez	Gerard
1401	Castillo	Pamela
1702	Gerard	Martin
NULL	NULL	NULL

3. SELECT productCode, productName, productScale, productVendor, buyPrice FROM
products WHERE productLine = "Motorcycles" AND buyPrice > 50 AND buyPrice < 80;

productCode	productName	productScale	productVendor	buyPrice
▶ S10_2016	1996 Moto Guzzi 1100i	1:10	Highway 66 Mini Classics	68.99
S12_2823	2002 Suzuki XREO	1:12	Unimax Art Galleries	66.27
S24_1578	1997 BMW R 1100 S	1:24	Autoart Studio Design	60.86
S32_1374	1997 BMW F650 ST	1:32	Exoto Designs	66.92
S32_4485	1974 Ducati 350 Mk3 Desmo	1:32	Second Gear Diecast	56.13
NULL	NULL	NULL	NULL	NULL

4. SELECT productCode, productName, productLine, quantityInStock, buyPrice FROM
products WHERE buyPrice = (SELECT MIN(buyPrice) FROM products
WHERE productLine = "Vintage Cars" AND productVendor = "Exoto Designs");

productCode	productName	productLine	quantityInStock	buyPrice
▶ S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	Vintage Cars	6553	43.26
NULL	NULL	NULL	NULL	NULL

5. SELECT productName, productVendor, quantityOrdered, quantityOrdered * priceEach
AS totalCost FROM products JOIN orderDetails WHERE
products.productCode = orderDetails.productCode
ORDER BY totalCost DESC LIMIT 5;

	productName	productVendor	quantityOrdered	totalCost
▶	2003 Harley-Davidson Eagle Drag Bike	Red Start Diecast	66	11503.14
	1969 Dodge Charger	Welly Diecast Productions	97	11170.52
	1917 Grand Touring Sedan	Welly Diecast Productions	76	10723.60
	1968 Ford Mustang	Autoart Studio Design	64	10460.16
	1952 Alpine Renault 1300	Classic Metal Creations	48	10286.40

6. SELECT customerNumber, customerName, phone, country, state, salesRepEmployeeNumber, creditLimit FROM customers
WHERE creditLimit > 130000 ORDER BY creditLimit ASC;

	customerNumber	customerName	phone	country	state	salesRepEmployeeNumber	creditLimit
▶	187	AV Stores, Co.	(171) 555-1555	UK	NULL	1501	136800.00
	151	Muscle Machine Inc	2125557413	USA	NY	1286	138500.00
	298	Vida Sport, Ltd	0897-034555	Switzerland	NULL	1702	141300.00
	124	Mini Gifts Distributors Ltd.	4155551450	USA	CA	1165	210500.00
	141	Euro+ Shopping Channel	(91) 555 94 44	Spain	NULL	1370	227600.00
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

7. SELECT products.productCode, productName, COUNT(quantityOrdered) AS OrderCount FROM products JOIN orderDetails WHERE products.productCode = orderDetails.productCode AND productVendor = "Welly Diecast Productions" GROUP BY 1 ORDER BY OrderCount DESC LIMIT 1;

productCode	productName	OrderCount
S12_1666	1958 Setra Bus	28

8. SELECT customers.customerName, city, state, country, creditLimit, SUM(quantityOrdered) AS totalQuantity FROM orderDetails, customers WHERE customers.customerNumber IN (SELECT customers.customerNumber FROM orders WHERE orders.customerNumber = customers.customerNumber AND orders.orderNumber = orderDetails.orderNumber) GROUP BY 1 ORDER BY 6 DESC LIMIT 3;

	customerName	city	state	country	creditLimit	totalQuantity
▶	Euro+ Shopping Channel	Madrid	NULL	Spain	227600.00	9327
	Mini Gifts Distributors Ltd.	San Rafael	CA	USA	210500.00	6366
	Australian Collectors, Co.	Melbourne	Victoria	Australia	117300.00	1926

9. SELECT officeCode,city,state,country FROM Offices WHERE country != "USA" AND addressLine2 IS NULL;

	officeCode	city	state	country
▶	4	Paris	NULL	France
	5	Tokyo	Chiyoda-Ku	Japan
	NULL	NULL	NULL	NULL

10. SELECT productName, productLine FROM products WHERE productName LIKE '%193%' AND productLine = "Vintage Cars";

productName	productLine
1937 Lincoln Berline	Vintage Cars
1936 Mercedes-Benz 500K Special Roadster	Vintage Cars
1932 Model A Ford J-Coupe	Vintage Cars
1934 Ford V8 Coupe	Vintage Cars
1932 Alfa Romeo 8C2300 Spider Sport	Vintage Cars
1939 Cadillac Limousine	Vintage Cars
1939 Chevrolet Deluxe Coupe	Vintage Cars
1938 Cadillac V-16 Presidential Limousine	Vintage Cars
1937 Horch 930V Limousine	Vintage Cars
1936 Mercedes Benz 500k Roadster	Vintage Cars
1936 Chrysler Airflow	Vintage Cars
1930 Buick Marquette Phaeton	Vintage Cars

11. SELECT orderNumber,requiredDate,shippedDate,
DATEDIFF(requiredDate,shippedDate) AS dateDifference,
MONTH(shippedDate) AS shippedMonth FROM ORDERS WHERE
DATEDIFF(requiredDate,shippedDate) < 3 AND EXTRACT(YEAR FROM shippedDate)
= '2005';

orderNumber	requiredDate	shippedDate	dateDifference	shippedMonth
10363	2005-01-12	2005-01-10	2	1
10373	2005-02-08	2005-02-06	2	2
10388	2005-03-11	2005-03-09	2	3
10389	2005-03-09	2005-03-08	1	3
10395	2005-03-24	2005-03-23	1	3
10402	2005-04-14	2005-04-12	2	4
10408	2005-04-29	2005-04-27	2	4
10411	2005-05-08	2005-05-06	2	5
10416	2005-05-16	2005-05-14	2	5
10417	2005-05-19	2005-05-19	0	5

12. SELECT customers.customerNumber, customerName, city, country,
COUNT(orderNumber) AS Orders
FROM (customers
LEFT JOIN orders ON customers.customerNumber = orders.customerNumber)
WHERE customers.customerNumber < 150
GROUP BY 1 ORDER BY Orders DESC;

	customerNumber	customerName	city	country	Orders
►	141	Euro+ Shopping Channel	Madrid	Spain	26
	124	Mini Gifts Distributors Ltd.	San Rafael	USA	17
	114	Australian Collectors, Co.	Melbourne	Australia	5
	145	Danish Wholesale Imports	Kobenhavn	Denmark	5
	148	Dragon Souvenirs, Ltd.	Singapore	Singapore	5
	119	La Rochelle Gifts	Nantes	France	4
	121	Baane Mini Imports	Stavern	Norway	4
	128	Blauer See Auto, Co.	Frankfurt	Germany	4
	131	Land of Toys Inc.	NYC	USA	4
	144	Volvo Model Replicas, Co	Luleå	Sweden	4
	103	Atelier graphique	Nantes	France	3
	112	Signal Gift Stores	Las Vegas	USA	3
	129	Mini Wheels Co.	San Francisco	USA	3
	146	Saveley & Henriot, Co.	Lyon	France	3
	125	Havel & Zbyszek Co	Warszawa	Poland	0

13. SELECT customerName, customers.customerNumber FROM (customers
LEFT JOIN orders ON customers.customerNumber = orders.customerNumber)
WHERE country = 'Switzerland' AND orderNumber IS NULL;

	customerName	customerNumber
►	BG&E Collectables	293
	Precious Collectables	376

14. SELECT productLines.productLine from productLines
JOIN products ON productLines.productLine = products.productLine
JOIN orderDetails ON products.productCode = orderDetails.productCode
GROUP BY 1 HAVING SUM(quantityOrdered) > 12000;

productLine
Classic Cars
Motorcycles
Vintage Cars

15. CREATE TABLE TopCustomers (
CustomerNumber INT NOT NULL,
ContactDate DATE NOT NULL,
OrderCount INT NOT NULL,
OrderTotal DECIMAL(9,2) NOT NULL,

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CONSTRAINT TopCustomer_PK PRIMARY KEY(CustomerNumber));
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16. INSERT INTO TopCustomers(CustomerNumber,ContactDate,OrderCount,OrderTotal)
    SELECT customerNumber,CURDATE(),COUNT(orderNumber),
    SUM(priceEach * quantityOrdered)
    AS TotalCost FROM orders
    INNER JOIN orderDetails ON orders.orderNumber = orderDetails.orderNumber
    GROUP BY customerNumber HAVING TotalCost > 130000;
```

```
17. SELECT * FROM TopCustomers ORDER BY OrderTotal DESC LIMIT 5;
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CustomerNumber	ContactDate	OrderCount	OrderTotal
141	2021-02-26	259	820689.54
124	2021-02-26	180	591827.34
114	2021-02-26	55	180585.07
151	2021-02-26	48	177913.95
119	2021-02-26	53	158573.12

```
18. ALTER TABLE TopCustomers
    ADD COLUMN CustomerRatings INT DEFAULT 0;
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19. UPDATE TopCustomers SET CustomerRatings =
    REPLACE(CustomerRatings,0,FLOOR((RAND()*(10-1)+1)))
    WHERE CustomerRatings = 0;
```

```
✓ 18 15:38:55 UPDATE T... 16 row(s) affected Rows matched: 16 Changed: 16 Warnings: 0
```

```
20. SELECT * FROM TopCustomers ORDER BY CustomerRatings DESC;
```

CustomerNumber	ContactDate	OrderCount	OrderTotal	CustomerRatings
141	2021-02-26	259	820689.54	10
321	2021-02-26	41	132340.78	9
323	2021-02-26	46	154622.08	9
131	2021-02-26	49	149085.15	8
148	2021-02-26	43	156251.03	8
382	2021-02-26	40	137480.07	8
124	2021-02-26	180	591827.34	7
187	2021-02-26	51	148410.09	7
119	2021-02-26	53	158573.12	5
276	2021-02-26	46	137034.22	5
282	2021-02-26	46	133907.12	5
114	2021-02-26	55	180585.07	3
146	2021-02-26	41	130305.35	3
450	2021-02-26	40	143536.27	3
496	2021-02-26	48	137460.79	3
151	2021-02-26	48	177913.95	0
NULL	NULL	NULL	NULL	NULL

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21. DROP TABLE TopCustomers;
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