select city
 from offices
 order by city ASC

a.

	#	city
ı	1	Boston
	2	London
	3	NYC
	4	Paris
	5	San Francisco
	6	Sydney
b.	7	Tokyo

2.

 select employeeNumber, lastName, firstName from employees

where officeCode = 4

a.

	#	employeeNumber	lastName	firstName
	1	1102	Bondur	Gerard
	2	1337	Bondur	Loui
	3	1370	Hernandez	Gerard
	4	1401	Castillo	Pamela
	5	1702	Gerard	Martin
	*	NULL	NULL	NULL

b.

3.

 select ProductCode, ProductName, ProductVendor, QuantityInStock, ProductLine from products

where quantityInStock between 100 AND 1000

a.

#	ProductCode	ProductName	ProductVendor	QuantityInStock	ProductLine
1	S18_2248	1911 Ford Town Car	Motor City Art Classics	540	Vintage Cars
2	S18_2581	P-51-D Mustang	Gearbox Collectibles	992	Planes
3	S18_2795	1928 Mercedes-Benz SSK	Gearbox Collectibles	548	Vintage Cars
4	S32_1374	1997 BMW F650 ST	Exoto Designs	178	Motorcycles
5	S32_3522	1996 Peterbilt 379 Stake Bed with	Red Start Diecast	814	Trucks and Buses
6	S32_4289	1928 Ford Phaeton Deluxe	Highway 66 Mini Classics	136	Vintage Cars
7	S50_4713	2002 Yamaha YZR M1	Autoart Studio Design	600	Motorcycles
8	S700_1938	The Mayflower	Studio M Art Models	737	Ships
9	S700_3167	F/A 18 Hornet 1/72	Motor City Art Classics	551	Planes
10	S72_3212	Pont Yacht	Unimax Art Galleries	414	Ships

 select ProductCode, ProductName, ProductVendor, BuyPrice, MSRP from products

where MSRP in (select MIN(MSRP) from products)

a.

b.

			•				
	#	ProductCode	ProductName	ProductVendor	BuyPrice	MSRP	
b.	1	S24_1937	1939 Chevrolet Deluxe Coupe	Motor City Art Classics	22.57	33.19	

5.

- 20 select productName, MSRP-BuyPrice as PROFIT
- 21 **from** products
- a. 22 order by PROFIT desc limit 1;

#	productName	PROFIT
1	1952 Alpine Renault 1300	115.72

6.

b.

- 24 select country, count(country) as Customers
- 25 from customers
- 26 **group by** country
- 27 having count(country)>10
- 28 order by Customers desc

```
#
          country
                     Customers
    1
          USA
                     36
    2
          Germany 13
    3
          France
                     12
b.
           select p.productCode, p.productName, count(o.orderNumber) as OrderCount
    31 •
           from products p join orderdetails o
    32
           on p.productCode = o.productCode
    33
    34
           group by productCode, productName
           order by OrderCount desc limit 1
    35
           productCode productName
                                                       OrderCount
     #
          S18_3232
                         1992 Ferrari 360 Spider red 53
b.
          select EmployeeNumber, CONCAT(firstName, ' ', lastName) as 'name'
    38
          from employees
    39
       \ominus where reportsTo = (select employeeNumber from employees
    40
                               where (firstName = 'Diane' and lastName = 'Murphy'))
    41
                                   or reportsTo = (select employeeNumber from employees
                                      where (firstName = 'William' and lastName = 'Patterson'))
    42
a.
```

```
#
     EmployeeNumber name
1
    1056
                      Mary Patterson
2
    1076
                      Jeff Firrelli
3
     1611
                      Andy Fixter
                      Peter Marsh
4
     1612
     1619
                       Tom King
```

b.

7.

8.

```
45 • select EmployeeNumber, lastName, firstName, reportsTo
46  from employees
47  where ISNULL(reportsTo)
```

```
EmployeeNumber lastName firstName reportsTo
              1002
                            Murphy
                                    Diane
      b.
10.
           49 •
                 select productName
           50
                 from products
           51
                 where productName like '%197%'
                     and productLine = 'Classic Cars'
           52
      a.
          #
              productName
          1
              1972 Alfa Romeo GTA
              1970 Plymouth Hemi Cuda
              1976 Ford Gran Torino
          4
              1970 Triumph Spitfire
              1970 Chevy Chevelle SS 454
              1970 Dodge Coronet
              1971 Alpine Renault 1600s
      b.
11.
           1 •
                select count(orderNumber), monthname(orderdate) as orderMonth
                from orders
           2
                where orderDate like '2005%'
           3
                group by orderMonth
           4
                order by 1 desc limit 1
           5
      a.
              count(orderNumber) orderMonth
          1 15
                           May
      b.
12.
          7 •
                select firstName, lastName
                from employees
          8
          9
             from customers
          10
                join employees
          11
                on employees.employeeNumber = customers.salesRepEmployeeNumber)
                and employees.jobTitle = "Sales Rep"
          13
          14
      a.
```

```
# firstName lastName

1 Tom King

b. Yoshimi Kato
```

```
16 • select customerName
17   from customers c left join orders o
18   on c.customerNumber = o.customerNumber
19   where o.customerNumber is null
20   and c.country = 'Germany'
```

customerName

Messner Shopping NetworkFranken Gifts, CoDer Hund Imports

5 Cramer Spezialitäten, Ltd6 Kommission Auto

Natürlich Autos

7 Stuttgart Collectable Exchange

8 Feuer Online Stores, Inc

9 Warburg Exchange

b. Mit Vergnügen & Co.

14.

```
30 •
      select customername, sum(quantityordered) as totalq
31
      from customers c
32
          join orders o
              on c.customerNumber = o.customernumber
33
                  join orderdetails d
34
                      on o.ordernumber = d.ordernumber
35
36
      group by customerName
      having totalq > 1700
37
```

a. 38

#	customername	totalq
1	Australian Collectors, Co.	1926
2	AV Stores, Co.	1778
3	Euro+ Shopping Channel	9327
4	La Rochelle Gifts	1832
5	Mini Gifts Distributors Ltd.	6366
6	Muscle Machine Inc	1775

b.

```
15.
```

```
39 • ⊖ create table if not exists TopCustomers(
                 CustomerNumber integer not null,
                 ContactDate date not null,
           41
           42
                 OrderTotal decimal(9,2) not null default 0,
                constraint TopCustomer PK primary key (CustomerNumber));
           43
16.
                 insert into TopCustomers
                     select c.customernumber, CURRENT_date, SUM(priceEach * Quantityordered)
           46
                          from customers c, orders o, orderdetails d
           47
           48
                         where c.customerNumber = o.customerNumber
                         and o.orderNumber = d.orderNumber
           49
                         group by c.customerNumber
           50
                         having SUM(priceEach*quantityOrdered) > 140000
           51
      a.
17.
           54 • select * from TopCustomers
                 order by OrderTotal desc
           55
      a.
```

#	CustomerNumber	ContactDate	OrderTotal
1	141	2019-10-11	820689.54
2	124	2019-10-11	591827.34
3	114	2019-10-11	180585.07
4	151	2019-10-11	177913.95
5	119	2019-10-11	158573.12
6	148	2019-10-11	156251.03
7	323	2019-10-11	154622.08
8	131	2019-10-11	149085.15
9	187	2019-10-11	148410.09
10	450	2019-10-11	143536.27
*	ыш	ыш	MIIII

1 • alter table TopCustomers

2 add column OrderCount integer

a.

b.

```
1 • update TopCustomers
2 set OrderCount = floor((rand()*18))
```

a.

20.

```
1 • select * from TopCustomers
2 order by 4 desc
```

a.

#	CustomerNumber	ContactDate	OrderTotal	OrderCount
1	114	2019-10-11	180585.07	17
2	119	2019-10-11	158573.12	17
3	141	2019-10-11	820689.54	14
4	450	2019-10-11	143536.27	13
5	187	2019-10-11	148410.09	10
6	151	2019-10-11	177913.95	9
7	148	2019-10-11	156251.03	6
8	323	2019-10-11	154622.08	5
9	131	2019-10-11	149085.15	3
10	124	2019-10-11	591827.34	0
*	NULL	NULL	NULL	HULL

drop table TopCustomers

21.