

1. Выбрать все строки из таблицы с перевозчиками:

Select * from Shippers;

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select * from Shippers;
```

ShipperID	ShipperName	Phone
1	Speedy Express	(503) 555-9831
2	United Package	(503) 555-3199
3	Federal Shipping	(503) 555-9931

3 rows in set (0.0072 sec)

2. Выбрать первые 3 строки из таблицы с сотрудниками:

Select * from Employees Limit 3;

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select * from Employees Limit 3;
```

EmployeeID	LastName	FirstName	BirthDate	Photo	Notes
1	Davolio	Nancy	1968-12-08	EmpID1.pic	Education includes a BA in psychology from Colorado State University. She also completed (The Art of the Cold Call). Nancy is a member of 'Toastmasters International'.
2	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his BTS commercial and a Ph.D. in international marketing from the University of Dallas. He is fluent in French and Italian and reads German. He joined the company as a sales representative, was promoted to sales manager and was then named vice president of sales. Andrew is a member of the Sales Management Roundtable, the Seattle Chamber of Commerce, and the Pacific Rim Importers Association.
3	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degree in chemistry from Boston College). She has also completed a certificate program in food retailing management. Janet was hired as a sales associate and was promoted to sales representative.

3 rows in set (0.0033 sec)

3. Из таблицы сотрудников выбрать все имена, фамилии, дни рождения в следующем порядке: BirthDate, FirstName, LastName, количество строк в выборке ограничить 3-мя:

Select BirthDate, FirstName, LastName from Employees Limit 3;

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select BirthDate, FirstName, LastName from Employees Limit 3;
```

BirthDate	FirstName	LastName
1968-12-08	Nancy	Davolio
1952-02-19	Andrew	Fuller
1963-08-30	Janet	Leverling

3 rows in set (0.0088 sec)

4. Выбрать имена и фамилии сотрудников, родившихся в 1958 году:

**Select FirstName, LastName from Employees
Where BirthDate Like '1958%';**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select FirstName, LastName from Employees
-> Where BirthDate Like '1958%';

+-----+-----+
| FirstName | LastName |
+-----+-----+
| Margaret  | Peacock  |
| Laura     | Callahan |
+-----+-----+
2 rows in set, 1 warning (0.0059 sec)
```

5. Выбрать все товары с ценой от 23 до 25:

**Select * from Products
Where Price between 23 and 25;**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select * from Products
-> Where Price between 23 and 25;

+-----+-----+-----+-----+-----+-----+
| ProductID | ProductName | SupplierID | CategoryID | Unit | Price |
+-----+-----+-----+-----+-----+-----+
| 6 | Grandma's Boysenberry Spread | 3 | 2 | 12 - 8 oz jars | 25.00 |
| 14 | Tofu | 6 | 7 | 40 - 100 g pkgs. | 23.25 |
| 55 | Pbtu chinois | 25 | 6 | 24 boxes x 2 pies | 24.00 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.0066 sec)
```

6. Найти товары с минимальной ценой:

**Select * from Products
Where Price = (Select Min(Price) from Products);**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select * from Products
-> Where Price = (Select Min(Price) from Products);

+-----+-----+-----+-----+-----+-----+
| ProductID | ProductName | SupplierID | CategoryID | Unit | Price |
+-----+-----+-----+-----+-----+-----+
| 33 | Geitost | 15 | 4 | 500 g | 2.50 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.0058 sec)
```

7. Найти товары с максимальной ценой:

Select * from Products

Where Price = (Select MAX(Price) from Products);

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select * from Products
-> Where Price = (Select MAX(Price) from Products);
+-----+-----+-----+-----+-----+-----+
| ProductID | ProductName | SupplierID | CategoryID | Unit | Price |
+-----+-----+-----+-----+-----+-----+
| 38 | Cute de Blaye | 18 | 1 | 12 - 75 cl bottles | 263.50 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.0062 sec)
```

8. Выбрать все товары, у которых Unit '10 pkgs.':

Select * from Products

Where Unit = '10 pkgs.';

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select * from Products
-> Where Unit = '10 pkgs.';
+-----+-----+-----+-----+-----+-----+
| ProductID | ProductName | SupplierID | CategoryID | Unit | Price |
+-----+-----+-----+-----+-----+-----+
| 48 | Chocolate | 22 | 3 | 10 pkgs. | 12.75 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.0072 sec)
```

9. Выбрать адреса поставщиков, которые проживают в одном из городов: Tokyo, Frankfurt, Osaka:

Select address from Suppliers

Where City = 'Tokyo' OR City = 'Frankfurt' OR City = 'Osaka';

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select address from Suppliers
-> Where City = 'Tokyo' OR City = 'Frankfurt' OR City = 'Osaka';
+-----+
| address |
+-----+
| 9-8 Sekimai Musashino-shi |
| 92 Setsuko Chuo-ku |
| Bogenallee 51 |
+-----+
3 rows in set (0.0060 sec)
```

10. Выбрать название товаров начинающихся с буквы “G”, у которых цена больше 37:

Select ProductName from Products

Where Price >= 37 and ProductName Like 'G%';

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select ProductName from Products
-> Where Price >= 37 and ProductName Like 'G%';
+-----+
| ProductName |
+-----+
| Gnocchi di nonna Alice |
+-----+
1 row in set (0.0072 sec)
```

11. Вывести список стран начинающихся на S и состоящих из 5 букв, из которых есть поставщики:

Select Country from Suppliers

Where Country Like 'S_____';

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Country from Suppliers
-> Where Country Like 'S_____';
+-----+
| Country |
+-----+
| Spain   |
+-----+
1 row in set (0.0078 sec)
```

12. Вывести сумму всех товаров, в названии которых содержится ”od”, столбец назвать Summ:

Select SUM(Price) AS Summ from Products

Where ProductName Like '%od%';

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select SUM(Price) AS Summ from Products
-> Where ProductName Like '%od%';
+-----+
| Summ |
+-----+
| 131.00 |
+-----+
1 row in set (0.0055 sec)
```

13. Вывести среднюю сумму товаров, поставляемых в бутылках, округлив до 2-х знаков после запятой, столбец назвать Summ:

**Select Round(AVG(Price),2) AS Summ from Products
Where Unit Like '%bottle%';**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Round(AVG(Price),2) AS Summ from Products
->                                     Where Unit Like '%bottle%';
+-----+
| Summ |
+-----+
| 37.03 |
+-----+
1 row in set (0.0078 sec)
```

14. Найти количество клиентов, которые НЕ проживают в Франции и Германии, столбец назвать Countt:

**Select Count(ContactName) AS Countt from Customers
Where not Country = 'Germany' and not Country = 'France';**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Count(ContactName) AS Countt from Customers
->                                     Where not Country = 'Germany' and not Country = 'France';
+-----+
| Countt |
+-----+
|      69 |
+-----+
1 row in set (0.0072 sec)
```

15. Вывести имена сотрудников, родившихся после 01.01.1968 года. Отсортировать результат по имени:

**Select FirstName from Employees
Where BirthDate >= '1968-01-01'
Order By FirstName;**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select FirstName from Employees
->                                     Where BirthDate >= '1968-01-01'
->                                     Order By FirstName;
+-----+
| FirstName |
+-----+
| Anne      |
| Nancy     |
+-----+
2 rows in set (0.0144 sec)
```

16. Выбрать названия товаров, у которых Price = 13 или 15 и отсортировать по возрастанию, использовать Select команды с объединением результатов через UNION:

```
Select ProductName from Products
Where Price = 13
Union
Select ProductName from Products
Where Price = 15
Order BY ProductName;
```

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select ProductName from Products
-> Where Price = 13
-> Union
-> Select ProductName from Products
-> Where Price = 15
-> Order BY ProductName;

+-----+
| ProductName |
+-----+
| Original Frankfurter grüne Soße |
| Outback Lager |
| Rüd Kaviar |
+-----+
3 rows in set (0.0136 sec)
```

17. Показать имена товаров, в названии которых третья буква m и названия их поставщиков:

```
Select Products.ProductName, Suppliers.SupplierName FROM
Products
JOIN Suppliers ON Products.SupplierID = Suppliers.SupplierID
Where Products.ProductName LIKE '__m%';
```

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Products.ProductName, Suppliers.SupplierName FROM Products
-> JOIN Suppliers ON Products.SupplierID = Suppliers.SupplierID
-> Where Products.ProductName LIKE '__m%';

+-----+-----+
| ProductName | SupplierName |
+-----+-----+
| Gumbur Gummibuchen | Heli Swaren GmbH & Co. KG |
| Camembert Pierrot | Gai puturage |
| Wimmers gute Semmelknudel | Plutzer Lebensmittelgroßmärkte AG |
+-----+-----+
3 rows in set (0.0061 sec)
```

18. Показать имена и фамилии сотрудника, который оформил заказ 1996-11-27 (написать запрос двумя способами: через INNER Join, и используя подзапрос):

**Select Employees.FirstName, Employees.LastName From Employees
INNER JOIN Orders ON Employees.EmployeeID =
Orders.EmployeeID
Where Orders.OrderDate = '1996-11-27';**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Employees.FirstName, Employees.LastName From Employees  
-> INNER JOIN Orders ON Employees.EmployeeID = Orders.EmployeeID  
-> Where Orders.OrderDate = '1996-11-27';  
  
+-----+-----+  
| FirstName | LastName |  
+-----+-----+  
| Janet     | Leverling |  
+-----+-----+  
1 row in set (0.0088 sec)
```

**Select Employees.FirstName, Employees.LastName From Employees
Where EmployeeID = (Select EmployeeID from Orders Where OrderDate =
'1996-11-27');**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Employees.FirstName, Employees.LastName From Employees Where EmployeeID = (Select EmployeeID from Orders Where OrderDate = '1996-11-27');  
  
+-----+-----+  
| FirstName | LastName |  
+-----+-----+  
| Janet     | Leverling |  
+-----+-----+  
1 row in set (0.0057 sec)
```

19. Выбрать все товары, у которых поставщик «Grandma Kelly's Homestead» и цена > 27. В результате вывести 3 колонки: Product, Supplier, Price:

**Select Products.ProductName, Suppliers.SupplierName, Products.Price
FROM Products
JOIN Suppliers ON Products.SupplierID = Suppliers.SupplierID
Where Suppliers.SupplierName Like 'Grandma%' AND Products.Price
> 27;**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Products.ProductName, Suppliers.SupplierName, Products.Price FROM Products  
-> JOIN Suppliers ON Products.SupplierID = Suppliers.SupplierID  
-> Where Suppliers.SupplierName Like 'Grandma%' AND Products.Price > 27;  
  
+-----+-----+-----+  
| ProductName | SupplierName | Price |  
+-----+-----+-----+  
| Uncle Bob's Organic Dried Pears | Grandma Kelly's Homestead | 30.00 |  
| Northwoods Cranberry Sauce | Grandma Kelly's Homestead | 40.00 |  
+-----+-----+-----+  
2 rows in set (0.0064 sec)
```

20. Вывести суммарное количество продукта 'Queso Cabrales' (столбец обозвать Summ), отправленного всем покупателям (написать запрос двумя способами: через INNER Join, и используя подзапрос):

**Select SUM(Quantity) AS Summ From OrderDetails
INNER JOIN Products ON Products.ProductID =
OrderDetails.ProductID
Where ProductName = 'Queso Cabrales';**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select SUM(Quantity) AS Summ From OrderDetails
-> INNER JOIN Products ON Products.ProductID = OrderDetails.ProductID
-> Where ProductName = 'Queso Cabrales';
+-----+
| Summ |
+-----+
| 182 |
+-----+
1 row in set (0.0075 sec)
```

**Select SUM(Quantity) AS Summ From OrderDetails
Where OrderDetails.ProductID = (Select ProductID FROM Products
Where ProductName = 'Queso Cabrales');**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select SUM(Quantity) AS Summ From OrderDetails
-> Where OrderDetails.ProductID = (Select ProductID FROM Products Where ProductName = 'Queso Cabrales');
+-----+
| Summ |
+-----+
| 182 |
+-----+
1 row in set (0.0099 sec)
```

21. Показать все заказы, которые были отправлены по адресу «Ekergatan 24» с их заказчиками и сотрудниками. В результате вывести 3 колонки – ID заказа, имя заказчика, имя сотрудника, фамилия сотрудника:

**Select Orders.OrderID, Customers.CustomerName,
Employees.FirstName, Employees.LastName FROM Customers
JOIN Orders ON Customers.CustomerID = Orders.CustomerID
JOIN Employees ON Employees.EmployeeID = Orders.EmployeeID
Where Customers.Address = 'Ekergatan 24' ;**

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Orders.OrderID, Customers.CustomerName, Employees.FirstName, Employees.LastName FROM Customers
-> JOIN Orders ON Customers.CustomerID = Orders.CustomerID
-> JOIN Employees ON Employees.EmployeeID = Orders.EmployeeID
-> Where Customers.Address = 'Ekergatan 24' ;
+-----+-----+-----+-----+
| OrderID | CustomerName | FirstName | LastName |
+-----+-----+-----+-----+
| 10264 | Folk och fe HB | Michael | Suyama |
| 10327 | Folk och fe HB | Andrew | Fuller |
| 10378 | Folk och fe HB | Steven | Buchanan |
| 10434 | Folk och fe HB | Janet | Leverling |
+-----+-----+-----+-----+
4 rows in set (0.0080 sec)
```


22. Преобразовать предыдущий запрос таким образом, чтобы те же данные выводились в 3-х колонках – объединить LastName и FirstName из Employees в одну колонку через пробел и назвать ее EmployeeName (2 LEFT JOINS):

```
Select Orders.OrderID, Customers.CustomerName, CONCAT_WS(' ',  
Employees.FirstName, Employees.LastName) AS EmployeeName FROM  
Customers  
LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID  
LEFT JOIN Employees ON Employees.EmployeeID =  
Orders.EmployeeID Where Customers.Address = 'Ekergatan 24';
```

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Orders.OrderID, Customers.CustomerName, CONCAT_WS(' ', Employees.FirstName, Employees.LastName) AS EmployeeName FROM Customers  
-> LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID  
-> LEFT JOIN Employees ON Employees.EmployeeID = Orders.EmployeeID Where Customers.Address = 'Ekergatan 24';  
+-----+-----+-----+  
| OrderID | CustomerName | EmployeeName |  
+-----+-----+-----+  
| 10264 | Folk och fe HB | Michael Suyama |  
| 10327 | Folk och fe HB | Andrew Fuller |  
| 10378 | Folk och fe HB | Steven Buchanan |  
| 10434 | Folk och fe HB | Janet Leverling |  
+-----+-----+-----+  
3 rows in set (0.0097 sec)
```

23. Показать все продукты, содержащиеся в заказах 1997-го года и в названии которых менее 5 букв. В результате вывести OrderID, OrderDate, ProductName (написать запрос двумя способами: через INNER JOINS, и используя подзапросы):

```
Select Orders.OrderID, Orders.OrderDate, Products.ProductName  
FROM Products  
INNER JOIN OrderDetails ON Products.ProductID =  
OrderDetails.ProductID  
INNER JOIN Orders ON Orders.OrderID = OrderDetails.OrderID  
Where ProductName LIKE '____' AND OrderDate LIKE '1997%';
```

```
MySQL 178.124.206.46:33306 ssl voodoo SQL > Select Orders.OrderID, Orders.OrderDate, Products.ProductName FROM Products  
-> INNER JOIN OrderDetails ON Products.ProductID = OrderDetails.ProductID  
-> INNER JOIN Orders ON Orders.OrderID = OrderDetails.OrderID  
-> Where ProductName LIKE '____' AND OrderDate LIKE '1997%';  
+-----+-----+-----+  
| OrderID | OrderDate | ProductName |  
+-----+-----+-----+  
| 10409 | 1997-01-09 | Tofu |  
| 10412 | 1997-01-13 | Tofu |  
| 10427 | 1997-01-27 | Tofu |  
+-----+-----+-----+  
3 rows in set, 1 warning (0.0094 sec)
```

24. Показать названия продуктов и их категорий, которые используются в заказах от заказчика по имени Blondel père et fils и категории которых состоят как минимум из 2-х слов:

```
Select Categories.CategoryName, Products.ProductName FROM
Categories JOIN Products ON Categories.CategoryID =
Products.CategoryID
JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID
JOIN Orders ON OrderDetails.OrderID = Orders.OrderID
JOIN Customers ON Orders.CustomerID = Customers.CustomerID
Where CustomerName = 'Blondel père et fils' AND
Categories.CategoryName LIKE '% %';
```

```
MySQL 178.124.206.46:3306 ssl voodoo SQL > Select Categories.CategoryName, Products.ProductName FROM Categories JOIN Products ON Categories.CategoryID = Products.CategoryID
-> JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID
-> JOIN Orders ON OrderDetails.OrderID = Orders.OrderID
-> JOIN Customers ON Orders.CustomerID = Customers.CustomerID
-> Where CustomerName = 'Blondel père et fils' AND Categories.CategoryName LIKE '% %';

+-----+-----+
| CategoryName | ProductName |
+-----+-----+
| Dairy Products | Mozzarella di Giovanni |
+-----+-----+
1 row in set (0.0098 sec)
```

25. Вывести количество заказчиков (колонку назвать Buyers), которые сделали заказали один из продуктов: «Queso Cabrales», «Gustaf's Knäckebröd», «Louisiana Fiery Hot Pepper Sauce», «Schoggi Schokolade», «Gnocchi di nonna Alice»:

```
Select COUNT(DISTINCT Customers.CustomerID) AS Buyers FROM
Products
JOIN OrderDetails ON Products.ProductID = OrderDetails.ProductID
JOIN Orders ON OrderDetails.OrderID = Orders.OrderID
JOIN Customers ON Orders.CustomerID = Customers.CustomerID
Where ProductName = 'Queso Cabrales' OR ProductName = 'Louisiana Fiery Hot
Pepper Sauce' OR ProductName = 'Schoggi Schokolade' OR ProductName =
'Gnocchi di nonna Alice' OR ProductName LIKE 'Gustaf%';
```

```
MySQL 178.124.206.46:3306 ssl voodoo SQL > Select COUNT(DISTINCT Customers.CustomerID) AS Buyers FROM Products
-> JOIN OrderDetails ON Products.ProductID = OrderDetails.ProductID
-> JOIN Orders ON OrderDetails.OrderID = Orders.OrderID
-> JOIN Customers ON Orders.CustomerID = Customers.CustomerID
-> Where ProductName = 'Queso Cabrales' OR ProductName = 'Louisiana Fiery Hot Pepper Sauce' OR ProductName = 'Schoggi Schokolade' OR ProductName = 'Gnocchi di nonna Alice' OR ProductName LIKE 'Gustaf%';

+-----+
| Buyers |
+-----+
| 26 |
+-----+
1 row in set (0.0002 sec)
```