

1. Имена сотрудников, у которых предпоследняя буква О.

```
SELECT NAME FROM EMPLOEES  
WHERE NAME LIKE('%o_');
```

NAME
Konovalov
Petrov
Titov

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3 rows selected.

2. Название товаров, которые состоят больше, чем из 3 букв, при этом хотя бы одна буква в слове = e.

```
SELECT NAME FROM PRODUCTS  
WHERE NAME LIKE('%e%') AND NAME LIKE('%____%');
```

NAME
Whitebread
Blackbread

[Download CSV](#)

2 rows selected.

3. Все товары, которые продал сотрудник: Титов

```
SELECT NAME FROM PRODUCTS  
WHERE ID IN(SELECT ID_PRODUCT FROM PRODUCT_CHECK WHERE ID_CHECK IN(SELECT ID FROM CHECKS  
WHERE ID_EMPLOYEE IN(SELECT ID FROM EMPLOYEES WHERE NAME='Titov')));
```

NAME
Whitebread
Tea
Sugar

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3 rows selected.

4. Вывести имя покупателя, который потратил меньше всего денег

```
SELECT CUSTOMERS.NAME  
FROM CUSTOMERS, CHECKS  
WHERE CUSTOMERS.ID = CHECKS.ID_CUSTOMER  
AND CHECKS.AMOUNT = (SELECT MIN(SUM(AMOUNT))  
FROM CHECKS  
GROUP BY ID_CUSTOMER);
```

NAME
Popov

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5. Все номера чеков, в которых продавался сахар

```
SELECT CHECKS.ID FROM CHECKS
  JOIN PRODUCT_CHECK ON CHECKS.ID=PRODUCT_CHECK.ID_CHECK
  JOIN PRODUCTS ON PRODUCT_CHECK.ID_PRODUCT=PRODUCTS.ID
WHERE PRODUCTS.NAME='Sugar';
```

ID
1
3
5

[Download CSV](#)  
3 rows selected.

6. Вывести название товара и кол-во товара, которого продали больше всего

```
SELECT NAME, SUMPRO FROM (SELECT PRODUCTS.NAME, SUM(PCHNUMBER) SUMPRO FROM PRODUCTS  
JOIN PRODUCT_CHECK ON PRODUCTS.ID=PRODUCT_CHECK.ID_PRODUCT  
GROUP BY PRODUCTS.NAME)  
WHERE SUMPRO IN(SELECT MAX(SUM(PCHNUMBER)) FROM PRODUCTS  
JOIN PRODUCT_CHECK ON PRODUCTS.ID=PRODUCT_CHECK.ID_PRODUCT  
GROUP BY PRODUCTS.NAME);
```

NAME	SUMPRO
Sugar	11

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7. Первый номер чека, в котором содержался сахар

```
SELECT MIN(CHECKS.ID) FROM CHECKS  
  JOIN PRODUCT_CHECK ON CHECKS.ID=PRODUCT_CHECK.ID_CHECK  
  JOIN PRODUCTS ON PRODUCT_CHECK.ID_PRODUCT=PRODUCTS.ID  
WHERE PRODUCTS.NAME='Sugar';
```

MIN(CHECKS.ID)
1

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8. Найти NAME сотрудников и имя товара, сотрудники которые продали самое большое количество хлеба.

```
SELECT IMYA, KOLVO FROM (SELECT EMPLOYEES.NAME as IMYA, SUM(PRCH.PCHNUMBER) as KOLVO FROM
PRODUCTS PR
JOIN PRODUCT_CHECK PRCH ON PR.ID=PRCH.ID_PRODUCT
JOIN CHECKS ON PRCH.ID_CHECK=CHECKS.ID
JOIN EMPLOYEES ON CHECKS.ID_EMPLOYEE=EMPLOYEES.ID
WHERE PR.ID in (1001,1002)
GROUP BY EMPLOYEES.NAME)
WHERE KOLVO IN(SELECT MAX(MAXIMUM) FROM (SELECT SUM(PCHNUMBER) as MAXIMUM FROM
PRODUCTS PR
JOIN PRODUCT_CHECK PRCH ON PR.ID=PRCH.ID_PRODUCT
JOIN CHECKS ON PRCH.ID_CHECK=CHECKS.ID
JOIN EMPLOYEES ON CHECKS.ID_EMPLOYEE=EMPLOYEES.ID
WHERE PR.ID IN(1001,1002)
GROUP BY EMPLOYEES.NAME));
```

IMYA	KOLVO
Golikova	3
Golovin	3

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2 rows selected.



9. Сотрудник, который продал товаров на большую сумму

```
SELECT EMPLOEES.NAME FROM EMPLOEES  
JOIN CHECKS ON EMPLOEES.ID=CHECKS.ID_EMPLOEE  
WHERE AMOUNT=(SELECT MAX(AMOUNT) FROM CHECKS  
WHERE AMOUNT IN(SELECT SUM(AMOUNT) FROM CHECKS GROUP BY ID_EMPLOEE));
```

NAME
Titov

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10. Вывести номер чека и сумма чека, но сумма чека должна рассчитываться самостоятельно, т.е. не брать сумму из чека.

```
SELECT CHECKS.ID, SUM(PRICE*PCHNUMBER) FROM CHECKS
  JOIN PRODUCT_CHECK ON CHECKS.ID=PRODUCT_CHECK.ID_CHECK
  JOIN PRODUCTS ON PRODUCT_CHECK.ID_PRODUCT=PRODUCTS.ID
GROUP BY CHECKS.ID
ORDER BY CHECKS.ID;
```

ID	SUM(PRICE*PCHNUMBER)
1	460
2	44
3	1330
4	132
5	140
6	94

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6 rows selected.

11. Выбрать сотрудников с квалификацией = junior, у которых сумма всех продаж больше, чем продажи у Teamlead

```
SELECT EM.NAME FROM CHECKS CH,EMPLOEES EM
WHERE EM.ID=CH.ID_EMPLOYEE AND EM.CATEGORY='junior'
GROUP BY EM.NAME
HAVING SUM(CH.AMOUNT) >
(SELECT SUM(CH.AMOUNT)
FROM CHECKS CH,EMPLOEES EM
WHERE EM.ID=CH.ID_EMPLOYEE AND EM.CATEGORY='Team Lead'
GROUP BY EM.NAME);
```

NAME
Kononov
<a href="#">Download CSV</a>

12. Вывести все товары, которые купил Sidorov

```
SELECT PRODUCTS.NAME FROM PRODUCTS
  JOIN PRODUCT_CHECK ON PRODUCTS.ID=PRODUCT_CHECK.ID_PRODUCT
  JOIN CHECKS ON PRODUCT_CHECK.ID_CHECK=CHECKS.ID
  JOIN CUSTOMERS ON CHECKS.ID_CUSTOMER=CUSTOMERS.ID
WHERE CUSTOMERS.NAME='Sidorov';
```

NAME
Whitebread
Whitebread
Blackbread
Sugar
Salt

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5 rows selected.