

1. ОСНОВЫ ПОЛУЧЕНИЯ ДАННЫХ

- **SELECT * FROM** tb_name;
- **SELECT** col, col2 **AS** second_column **FROM** tb_name;
- **LENGTH, CHAR_LENGTH**
- **IF**
- **IFNULL**
- **CONCAT**
- **SELECT ... CASE WHEN ... THEN ... ELSE ... END ...**

2. СОРТИРОВКА ДАННЫХ

- **SELECT** col **FROM** tb_name **ORDER BY** col2;
- **SELECT** col **FROM** tb_name **ORDER BY** col2 **ASC**;
- **SELECT** col **FROM** tb_name **ORDER BY** col2 **DESC**;
- **SELECT** col **FROM** tb_name **ORDER BY** col2 **ASC, col3 DESC**;
- **SELECT * FROM** tb_name **ORDER BY CHAR_LENGTH(col), col2**;
- **SELECT ... ORDER BY col ASC COLLATE** utf8mb4_0900_as_cs;

3. ФИЛЬТРАЦИЯ ДАННЫХ

- **SELECT DISTINCT** col, col2 **FROM** tb_name;
- **SELECT** col, col2 **FROM** tb_name **LIMIT** 3;
- **SELECT** col, col2 **FROM** tb_name **LIMIT** 3 **OFFSET** 5;
- **SELECT** col, col2 **FROM** tb_name **WHERE** col3 = 5;
- **SELECT** col **FROM** tb_name **WHERE** col2 = 5 **AND** col3 = 'str';
- **SELECT** col **FROM** tb_name **WHERE** col2 = 5 **OR** col3 = 'str';
- **SELECT** col **FROM** tb_name **WHERE** col2 **LIKE** '%str%';
- **SELECT** col **FROM** tb_name **WHERE** col2 **LIKE** '_str_';
- **SELECT** col **FROM** tb_name **WHERE** col2 **BETWEEN** 5 **AND** 10;
- **SELECT** col **FROM** tb_name **WHERE** col2 **IN**(1, 2, 'str');
- **SELECT** col **FROM** tb_name **WHERE** col2 **NOT IN**(1, 2, 'str');
- **SELECT** col **FROM** tb_name **WHERE** col2 **IS NULL**;
- **SELECT** col **FROM** tb_name **WHERE** col2 **IS NOT NULL**;

4. СОЕДИНЕНИЕ ТАБЛИЦ

- **INNER JOIN (JOIN)**
- **LEFT OUTER JOIN (LEFT JOIN)**
- **RIGHT OUTER JOIN (RIGHT JOIN)**
- **CROSS JOIN**
- **UNION, UNION ALL**
- **INTERSECT**
- **EXCEPT**

4. ПОДЗАПРОСЫ

- `SELECT col FROM tb_name WHERE col2 = (SELECT col3 ...);`
- `SELECT col FROM tb_name WHERE col2 IN(SELECT col3 ...);`
- `SELECT col FROM tb_name WHERE col2 NOT IN(SELECT col3 ...);`
- `SELECT col FROM tb_name WHERE col2 > ANY(SELECT col3 ...);`
- `SELECT col FROM tb_name WHERE col2 = ALL(SELECT col3 ...);`
- `SELECT col FROM tb_name WHERE EXISTS(SELECT col3 ...);`
- `SELECT col FROM tb_name WHERE NOT EXISTS(SELECT col3 ...);`

5. АГРЕГИРОВАНИЕ И ГРУППИРОВКА

- `COUNT, AVG, MAX, MIN, SUM` и `GROUP_CONCAT`
- `GROUP BY`
- `HAVING`

6. ОКОННЫЕ ФУНКЦИИ

- `... OVER(PARTITION BY ORDER BY col)`
- `COUNT, AVG, MAX, MIN, SUM, GROUP_CONCAT OVER(...)`
- `ROW_NUMBER, RANK, DENSE_RANK, NTILE OVER(...)`
- `FIRST_VALUE, LAST_VALUE, LAG, LEAD OVER(...)`

7. ДОБАВЛЕНИЕ ДАННЫХ

- `INSERT INTO tb_name(col, col2) VALUES ('a', 'b'), ('c', 'd');`
- `INSERT INTO tb_name(col) SELECT col2 FROM another_tb_name;`
- `... ON DUPLICATE KEY UPDATE col = new.col ...`
- `REPLACE INTO tb_name(col, col2) VALUES ('a', 'b');`
- `INSERT IGNORE tb_name(col, col2) VALUES ('a', 'b');`

8. ОБНОВЛЕНИЕ ДАННЫХ

- `UPDATE tb_name SET col = 'a', col2 = 'b';`
- `UPDATE tb_name SET col = 'a', col2 = 'b' WHERE col3 = 'b';`
- `UPDATE ... CASE WHEN ... THEN ... ELSE ... END ...`
- `UPDATE IGNORE tb_name SET col = 'a', col2 = 'b';`

9. УДАЛЕНИЕ ДАННЫХ

- `DELETE FROM tb_name;`
- `DELETE FROM tb_name WHERE col = 'a';`
- `TRUNCATE TABLE tb_name;`
- `DELETE IGNORE FROM tb_name;`