Quick View

- SELECT Clause
- WHERE Clause
- Logical Operators
- IN Operators
- BETWEEN Operators
- LIKE Operators
- REGEXP Operator
- IS NULL Operator
- ORDER BY Clause
- LIMIT Clause
- Inner Joins
- Outer Joins
- USING Clause
- Cross Joins
- Unions
- Inserting Data
- --
- UPDATE
- LEFT
- SUBSTRING
- UPPER/LOWER
- CONCAT
- GROUP_CONCAT

Notes

1. 带 null 的无法与值做比较,需要先把 null 转为 0, 或者多使用个 IS NULL 判断条件、、、

SELECT name FROM customer

WHERE referee_id != '2' OR referee_id IS NULL

. . .

. . .

SELECT name

FROM customer

WHERE IFNULL(referee_id,0)<>2

. . .

2. 某网站包含两个表,Customers 表和 Orders 表。编写一个 SQL 查询,找出所有从不订购任何东西的客户。有三种思路,NOT EXISTS, NOT IN, 还有 JOIN\

另: SELECT 1 在作为子查询中的判断子查询结果是否存在条件时效率较高(大量数据情况下),因为不用查字典表

. . .

```
SELECT Name AS Customers
FROM Customers c
WHERE NOT EXISTS (
   SELECT 1
   FROM Orders o
   WHERE o.CustomerId=c.Id
SELECT Name AS Customers
FROM Customers
WHERE Customers.Id NOT IN (
   SELECT CustomerID
   FROM Orders
)
. . .
SELECT Name AS Customers
FROM Customers c
LEFT JOIN Orders o ON c.Id=o.CustomerId
WHERE o.Id IS NULL
3. UPDATE 语句,更新; IF 语句,判断
UPDATE salary SET sex = if(sex='m','f','m')
4. CONCAT, UPPER, LOWER, LEFT, SUBSTR 用法
LEFT(string, number of chars)
SUBSTR(string, start, length)
SELECT user_id, concat(upper(left(name,1)),lower(substr(name,2))) as
name
FROM Users
ORDER BY user_id
5. GROUP CONCAT 用法
GROUP_CONCAT(DISTINCT XXX ORDER BY XXX SEPARATOR "X")
SELECT
   sell_date,
   COUNT(DISTINCT product) AS num_sold,
```

```
GROUP_CONCAT(DISTINCT product ORDER BY product SEPARATOR ',') AS
products
FROM Activities
GROUP BY sell date
ORDER BY sell date
6. LIKE 用法
LIKE 'a%'/'%a'/'%or%'/'a_%_%'
* 'a % %' : start with a with length at least 3
SELECT patient_id, patient_name, conditions
FROM Patients
WHERE conditions LIKE '% DIAB1%' or conditions LIKE 'DIAB1%'
7. ORDER BY
SELECT * FROM Customers
ORDER BY Country ASC, CustomerName DESC;
8. Find missing information
SELECT employee_id FROM Employees WHERE employee_id NOT IN(SELECT
employee id FROM Salaries)
UNION
SELECT employee_id FROM Salaries WHERE employee_id NOT IN(SELECT
employee_id FROM Employees)
ORDER BY employee_id;
9. Transfer between Columns and Rows
. . .
SELECT
 product_id,
 SUM(IF(store = 'store1', price, NULL)) 'store1',
 SUM(IF(store = 'store2', price, NULL)) 'store2',
 SUM(IF(store = 'store3', price, NULL)) 'store3'
FROM
 Products1
GROUP BY product_id ;
. . .
```

SELECT product_id, 'store1' AS store, store1 AS price FROM products WHERE store1 IS NOT NULL

UNION

SELECT product_id, 'store2' AS store, store2 AS price FROM products WHERE store2 IS NOT NULL

UNION

SELECT product_id, 'store3' AS store, store3 AS price FROM products WHERE store3 IS NOT NULL;

• • •