打死也要记住法则1: col

笔记本: 数据库

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select

SELECT col,col,col 找什么?

FROM table 从哪找?

WHERE col 条件条件是啥?

条件: 数字(where)

当查找条件col是数字

select * from table where col = 1;

Operator	Condition	SQL Example	解释
, !=, < <=, >, >=	Standard numerical operators	col != 4	等于大于小于
BETWEEN AND	Number is within range of two values (inclusive)	col BETWEEN 1.5 AND 10.5	在×和×之间
NOT BETWEEN AND	Number is not within range of two values (inclusive)	co NOT BETWEEN 1 AND10	不在x和x之间
IN ()	Number exists in a list col IN (2		在 X 集 合
NOT IN ()	Number does not exist in a list	col NOT IN (1, 3, 5)	不 在 X

条件:文本(where)

当查找条件col是文本

select * from table where col like '%jin';

Operator	Condition	SQL Example	解释
=	Case sensitive exact string comparison (notice the single equals)	col = "abc"	等于
!= or <>	Case sensitive exact string inequality comparison	col != "abcd"	不等 于
LIKE	Case insensitive exact string comparison	col LIKE "ABC"	等于
NOT LIKE	Case insensitive exact string inequality comparison	col NOT LIKE "ABCD"	不等 于
%	Used anywhere in a string to match a sequence of zero or more characters (only with LIKE or NOT LIKE)	col LIKE "%AT%" (matches "AT", "ATTIC", "CAT" or even "BATS")	模糊匹配
_	Used anywhere in a string to match a single character (only with LIKE or NOT LIKE)	col LIKE "AN_" (matches "AND", but not "AN")	模糊 匹配 单字 符
IN ()	String exists in a list	col IN ("A", "B", "C")	在集合
NOT IN ()	String does not exist in a list	co NOT IN ("D", "E", "F")	不在集合

排序(rows)

需要对结果rows排序和筛选部分rows

select * from table where col > 1 order by col asc limit 2 offset 2

Operator	Condition	SQL Example	解释
ORDER BY		ORDER BY col ASC/DESC	按col排序
ASC		ORDER BY col ASC/DESC	升序
DESC		ORDER BY col ASC/DESC	降序
LIMIT OFFSET		LIMIT num_limit OFFSET num_offset	从offset取limit
ORDER BY		ORDER BY col1 ASC,col2 DESC	多列排序

join:连表(table)

当查找的数据在多张关联table里

select * from table1 left join table2 on table1.id = table2.id where col > 1

Operator	Condition	SQL Example	解释
JOIN ON		t1 JOIN t2 ON t1.id = t2.id	按ID连成1个表
INNER JOIN		t1 INNER JOIN t2 ON t1.id = t2.id	只保留id相等的row
LEFT JOIN		t1 LEFT JOIN t2 ON t1.id = t2.id	保留t1的所有row
RIGHT JOIN		t1 RIGHT JOIN t2 ON t1.id = t2.id	保留t2的所有row
IS/IS NOT NULL		col IS/IS NOT NULL	col是不是为null

算式(select / where)

当需要对select的col 或 where条件的col 经过一定计算后才能使用

select *, col*2 from table where col/2 > 1

Operator	Condition	SQL Example	解释
+ - * / %		col1 + col2	col加减乘除
substr		substr(col,0,4)	字符串截取
AS		col * 2 AS col_new	col取别名
			还有很多

统计 (select)

对查找的rows需要按col分组统计的情况

select count(*),avg(col),col from table where col > 1 group by col

Operator	Condition	SQL Example	解释
COUNT(*), COUNT(column)	A common function used to counts the number of rows in the group if no column name is specified. Otherwise, count the number of rows in the group with non-NULL values in the specified column.	count(col)	计数
MIN(column)	Finds the smallest numerical value in the specified column for all rows in the group.	min(col)	最小
MAX(column)	Finds the largest numerical value in the specified column for all rows in the group.	max(col)	最大
AVG(column)	Finds the average numerical value in the specified column for all rows in the group.	avg(col)	平均
SUM(column)	Finds the sum of all numerical values in the specified column for the rows in the group.	sum(col)	求和
GROUP BY		group by col,col2	分组
HAVING	·	HAVING col>100	分组后条件

子表 (table)

一次select的结果rows作为下一次select的临时table才能得到最终结果

select * from (select * from table where col > 1) as tmp where col < 1

Operator	Condition	SQL Example	解释
(select -) as tmp		(select -) as tmp	select结果做子表
in (select -)		in (select -)	select结果做条件
avg (select -)		avg (select -)	select结果做条件