

TEST

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# 1. CATALOGUE

---

query test.....	3
1.1 CREATE.....	3
1.1.1 CREATE DATABASE.....	3
1.1.2 CREATE TABLE .....	3
1.2 DROP .....	5
1.2.1 DROP DATABASE.....	5
1.2.2 DROP TABLE .....	5
1.2.3 DROP CCOLUMN.....	6
1.3 RENAME.....	7
1.3.1 RENAME DATABASE .....	7
1.3.2 RENAME TABLE .....	7
1.4 USE .....	8
1.4.1 USE.....	8
1.5 SHOW.....	8
1.5.1 SHOW DATABASES .....	8
1.5.2 SHOW TABLES .....	8
1.6 Alter.....	9
1.6.1 ALTER TABLE ADD column.....	9
1.6.2 ALTER TABLE MODIFY.....	11
1.6.3 ALTER TABLE DROP .....	12
1.7 TRUNCATE TABLE .....	13
1.7.1 TRUNCATE tbname; .....	13
1.8 Delete .....	13
1.8.1 DELETE ONE LINE .....	13
1.8.2 DELETE MULTIPLE LINES .....	14
1.9 Insert .....	15
1.9.1 INSERT ONE LINE.....	15
1.9.2 INSERT MULTIPLE LINES.....	16
1.9.3 INSERT FROM OTHER TABLE.....	17
1.10 UPDATE.....	18
1.10.1 UPDATE table SET.....	18

1.10.2	UPDATE table with JOIN.....	19
1.11	SELECT.....	22
1.11.1	SELECT SINGLE COLUMN .....	22
1.11.2	SELECT MULTIPAL COLUMN .....	22
1.11.3	SELECT ALL COLUMN .....	22
1.11.4	SELECT WITH AS AND FROM .....	23
1.11.5	SELECT FROM MULTIPLE TABLES.....	24
1.11.6	SELECT WITH FUNTION.....	24
1.11.7	SELECT WITH ORDER BY .....	25
1.11.8	SELECT WITH LIMIT .....	26
1.11.9	SELECT WITH FETCH.....	27
1.11.10	SELECT WITH WHERE.....	31
1.11.11	SELECT WITH SUBQUERY .....	40
1.11.12	SELECT WITH JOIN.....	42

# QUERY TEST

---

## 1.1 CREATE

### 1.1.1 CREATE DATABASE

*1.1.1.1 CREATE DATABASE testdb;*

1.1.1.1.1 CREATE DATABASE testdb;

```
CREATE DATABASE testdb;
-----CREATE METHOD -----
CREATE : 53
DATABASE : 359
testdb : 376

-----STRUCTURE-----
CREATE
DATABASE
testdb
```

### 1.1.2 CREATE TABLE

*1.1.2.1 CREATE TABLE table\_name ( column\_name\_1 data\_type default value column\_constraint, column\_name\_2 data\_type default value column\_constraint, ..., table\_constraint);*

//data\_type:

TEXT:(<VARCHAR>|<CHAR>)(<LBRACKET><NUMBER><RBRACKET>)?|<BLOB>

NUMER:|(<INT>|<BIGINT>)(<LBRACKET><NUMBER><RBRACKET>)?|<REAL>

|(<FLOAT>|(<DOUBLE>|<DECIMAL>)(<LBRACKET><NUMBER><COMMA><NUMBER><RBRACKET>)?

DATE:|<DATE>|<TIMESTAMP>|<TIME>|<YEAT>

// column\_constraint :NOT NULL;PRIMARY KEY ;AUTO\_INCREMENT;COMMENT

// table\_constraint: PRIMARY KEY('id');PRIMARY KEY ( id, name );

1.1.2.1.1 Create table mytable (id char,id1 char(12) primary key, phone int, phone1 int(64));

```
-----STRUCTURE-----  
Create  
table  
mytable  
[[id, char], [id1, char, 12, primary key], [phone, int], [phone1, int, 64]]
```

1.1.2.1.2 Create table mytable (id varchar,id1 varchar(12) , phone bigint, phone1 bigint(64) primary key);

```
Create  
table  
mytable  
[[id, varchar], [id1, varchar, 12], [phone, bigint], [phone1, bigint, 64, primary key]]
```

1.1.2.1.3 Create table mytable (id varchar primary key,id1 varchar(12), phone bigint primary key, phone1 bigint(64));

```
-----STRUCTURE-----  
Create  
table  
mytable  
[[id, varchar, primary key], [id1, varchar, 12], [phone, bigint, primary key], [phone1, bigint, 64]]
```

1.1.2.1.4 Create table mytable (id float,id1 float(12,4), phone double, phone1 double(12,4), primary key (id));

```
-----STRUCTURE-----  
Create  
table  
mytable  
[[id, float], [id1, float, 12, 4], [phone, double], [phone1, double, 12, 4], [primary key, id]]
```

1.1.2.1.5 Create table mytable (id float,id1 float(12,4), phone bigint, phone1 bigint(64), detail\_time date, primary key(id,phone));

```
-----STRUCTURE-----  
Create  
table  
mytable  
[[id, float], [id1, float, 12, 4], [phone, bigint], [phone1, bigint, 64], [detail_time, date], [primary key, id, phone]]
```

1.1.2.1.6 Create table mytable (id float,id1 float(12,4), phone bigint, phone1 bigint(64), detail\_time date, primary key(id,phone, detail\_time));

```
Create  
table  
mytable  
[[id, float], [id1, float, 12, 4], [phone, bigint], [phone1, bigint, 64], [detail_time, date], [primary key, id, phone, detail_time]]
```

1.1.2.1.7 Create table mytable (id float,id1 float(12,4), phone bigint, phone1 bigint(64), detail\_time date, aday year, primary key(id,phone, detail\_time));

```
-----STRUCTURE-----  
Create  
table  
mytable  
[[id, float], [id1, float, 12, 4], [phone, bigint], [phone1, bigint, 64], [detail_time, date], [aday, year], [primary key, id, phone, detail_time]]
```

1.1.2.1.8 Create table mytable (id float comment "test",id1 float(12,4), phone bigint, phone1 bigint(64), detail\_time date, aday year, primary key(id,phone, detail\_time)) ;

```

-----STRUCTURE-----
Create
table
mytable
[[id, float, comment, "test"], [id1, float, 12, 4], [phone, bigint], [phone1, bigint, 64], [detail_time, date], [aday, year], [primary key, id, phone, d
etail_time]]

```

## 1.2 DROP

### 1.2.1 DROP DATABASE

#### 1.2.1.1 *DROP DATABASE database\_name;*

##### 1.2.1.1.1 Drop database db1;

```

-----DROP METHOD -----
Drop : 76
database : 359
db1 : 376

```

### 1.2.2 DROP TABLE

#### 1.2.2.1 *DROP TABLE tbname;*

##### 1.2.2.1.1 Drop table tb1;

```

-----STRUCTURE-----
Drop
table
[tb1]

```

#### 1.2.2.2 *DROP TABLE tbname1,tbname2,...;*

##### 1.2.2.2.1 Drop table tb1,tb2;

```

-----STRUCTURE-----
Drop
table
[tb1, tb2]

```

##### 1.2.2.2.2 Drop table tb1,tb2,tb3,tb4;

```

-----STRUCTURE-----
Drop
table
[tb1, tb2, tb3, tb4]

```

## 1.2.3 DROP COLUMN

### 1.2.3.1 *ALTER TABLE tbname DROP COLUMN columnName;*

1.2.3.1.1 Alter table tb1 drop column c1;

```
-----STRUCTURE-----  
Alter  
table  
tb1  
[[drop, column, c1]]  
result: test  
sql is correct!
```

### 1.2.3.2 *ALTER TABLE tbname DROP COLUMN columnName, DROP COLUMN columnName,...;*

1.2.3.2.1 Alter table tb1 drop column c1, drop column c2;

```
-----STRUCTURE-----  
Alter  
table  
tb1  
[[drop, column, c1], [drop, column, c2]]  
result: test  
sql is correct!
```

1.2.3.2.2 Alter table tb1 drop column c1, drop column c2, drop column c3;

```
-----STRUCTURE-----  
Alter  
table  
tb1  
[[drop, column, c1], [drop, column, c2], [drop, column, c3]]  
result: test  
sql is correct!
```

## 1.3 RENAME

### 1.3.1 RENAME DATABASE

*1.3.1.1 RENAME DATABASE old\_name TO new\_name;*

1.3.1.1.1 Rename database db1 to db2;

```
-----STRUCTURE-----  
Rename  
database  
db1  
to  
db2  
result: test  
sql is correct!
```

### 1.3.2 RENAME TABLE

*1.3.2.1 RENAME TABLE tbname TO tbname1;*

1.3.2.1.1 Rename table tb1 to tb2;

```
-----STRUCTURE-----  
Rename  
table  
tb1  
to  
tb2  
result: test  
sql is correct!
```



## 1.4 USE

### 1.4.1 USE

*1.4.1.1 USE database\_name;*

1.4.1.1.1 Use db1;

```
-----STRUCTURE-----  
Use  
db1  
result: test  
sql is correct!
```

## 1.5 SHOW

### 1.5.1 SHOW DATABASES

*1.5.1.1 SHOW DATABASES;*

1.5.1.1.1 Show databases;

```
-----STRUCTURE-----  
show  
databases  
result: test  
sql is correct!
```

### 1.5.2 SHOW TABLES

*1.5.2.1 SHOW TABLES;*

1.5.2.1.1 Show tables;

```
-----STRUCTURE-----  
Show  
tables  
result: test  
sql is correct!
```

## 1.6 ALTER

### 1.6.1 ALTER TABLE ADD column

#### 1.6.1.1 *ALTER TABLE tbname ADD new\_column data\_type;*

##### 1.6.1.1.1 Alter table t1 add c1 int;

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, int]]  
result: test  
sql is correct!
```

##### 1.6.1.1.2 Alter table t1 add c1 int(64);

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, int, 64]]  
result: test  
sql is correct!
```

##### 1.6.1.1.3 Alter table t1 add c1 double(12,4);

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, double, 12, 4]]  
result: test  
sql is correct!
```

1.6.1.1.4 Alter table t1 add c1 double(12,4) not null;

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, double, 12, 4, not null]]  
result: test  
sql is correct!
```

1.6.1.1.5 Alter table t1 add c1 double(12,4) primary key;

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, double, 12, 4, primary key]]  
result: test  
sql is correct!
```

1.6.1.1.6 Alter table t1 add c1 double(12,4) primary key comment "test";

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, double, 12, 4, primary key, comment, "test"]]  
result: test  
sql is correct!
```

*1.6.1.2 ALTER TABLE tbname ADD new\_column data\_type [AFTER existing\_column]*

1.6.1.2.1 Alter table t1 add c1 double(12,4) primary key comment "test" after c2;

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, double, 12, 4, primary key, comment, "test", after, c2]]  
result: test  
sql is correct!
```

### 1.6.1.3 ALTER TABLE tbname ADD...; ADD ...;ADD ...;...;

1.6.1.3.1 Alter table t1 add c1 double(12,4) primary key comment "test" after c2, add c2 int(64);

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, double, 12, 4, primary key, comment, "test", after, c2], [add, c2, int, 64]]  
result: test  
sql is correct!
```

1.6.1.3.2 Alter table t1 add c1 double(12,4) primary key comment "test" after c2, add c2 float, add c3 char;

```
-----STRUCTURE-----  
Alter  
table  
t1  
[[add, c1, double, 12, 4, primary key, comment, "test", after, c2], [add, c2, float], [add, c3, char]]  
result: test  
sql is correct!
```

## 1.6.2 ALTER TABLE MODIFY

### 1.6.2.1 ALTER TABLE tbname MODIFY column\_definition;

1.6.2.1.1 ALTER TABLE tb1 MODIFY fee double (10,2) NOT NULL;

```
-----STRUCTURE-----  
ALTER  
TABLE  
tb1  
MODIFY  
[[fee, double, 10, 2, NOT NULL]]  
result: test  
sql is correct!
```

## 1.6.3 ALTER TABLE DROP

*1.6.3.1 ALTER TABLE tbname DROP COLUMN column\_name;*

1.6.3.1.1 ALTER TABLE tbname DROP COLUMN fee;

```
-----STRUCTURE-----  
ALTER  
TABLE  
tbname  
[[DROP, COLUMN, fee]]  
result: test  
sql is correct!
```

*1.6.3.2 ALTER TABLE tbname DROP COLUMN column\_name, DROP COLUMN column\_name.*

1.6.3.2.1 ALTER TABLE tbname DROP COLUMN fee, DROP COLUMN fee2;

```
-----STRUCTURE-----  
ALTER  
TABLE  
tbname  
[[DROP, COLUMN, fee], [DROP, COLUMN, fee2]]  
result: test  
sql is correct!
```

## 1.7 TRUNCATE TABLE

### 1.7.1 TRUNCATE tbname;

#### 1.7.1.1.1 TRUNCATE tb1;

```
-----STRUCTURE-----  
TRUNCATE  
tb1  
result: test  
sql is correct!
```

## 1.8 DELETE

### 1.8.1 DELETE ONE LINE

#### 1.8.1.1.1 DELETE FROM departments WHERE department\_id = 16;

```
-----STRUCTURE-----  
DELETE  
FROM  
departments  
WHERE  
[[department_id, =, 16]]  
result: test  
sql is correct!
```

#### 1.8.1.1.2 DELETE FROM departments WHERE department\_name = 'a';

```
-----STRUCTURE-----  
DELETE  
FROM  
departments  
WHERE  
[[department_name, =, "a"]]  
result: test  
sql is correct!
```

## 1.8.2 DELETE MULTIPLE LINES

1.8.2.1.1 DELETE FROM departments WHERE employee\_id IN ( 100, 101, 102);

```
-----STRUCTURE-----  
DELETE  
FROM  
departments  
WHERE  
[[employee_id, IN, [100, 101, 102]]]  
result: test  
sql is correct!
```

1.8.2.1.2 DELETE FROM departments WHERE employee\_id BETWEEN 100 AND 102;

```
-----STRUCTURE-----  
DELETE  
FROM  
departments  
WHERE  
[[employee_id, BETWEEN, 100, AND, 200]]  
result: test  
sql is correct!
```

1.8.2.1.3 DELETE FROM departments WHERE employee\_id < 7 OR c1 = "c";

```
-----STRUCTURE-----  
DELETE  
FROM  
departments  
WHERE  
[[employee_id, <, 7], OR, [c1, =, "c"]]  
result: test  
sql is correct!
```

## 1.9 INSERT

### 1.9.1 INSERT ONE LINE

*1.9.1.1 INSERT INTO table1 (column1, coulumn2,...) VALUES (value1, value2 , ...); //value = number or text;*

1.9.1.1.1 Insert into t1(c1) values (3);

```
-----STRUCTURE-----  
Insert  
into  
t1  
[c1]  
values  
[[3]]  
result: test  
sql is correct!
```

1.9.1.1.2 Insert into t1(c1,c2,c5) values (3,2,4);

```
-----STRUCTURE-----  
Insert  
into  
t1  
[c1, c2, c5]  
values  
[[3], [2], [4]]  
result: test  
sql is correct!
```

*1.9.1.2 INSERT INTO table1 VALUES (value1, value2,...)*

1.9.1.2.1 Insert into t1 values (3,2,4);

```
-----STRUCTURE-----  
Insert  
into  
t1  
[]  
values  
[[3], [2], [4]]  
result: test  
sql is correct!
```



## 1.9.2 INSERT MULTIPLE LINES

*1.9.2.1 INSERT INTO table1 VALUES (value1, value2,...), (value1, value2,...),...;*

1.9.2.1.1 Insert into t1 values (3,2,4),(324,324,324);

```
-----STRUCTURE-----  
Insert  
into  
t1  
[]  
values  
[[3], [2], [4]]  
[[324], [324], [324]]  
result: test  
sql is correct!
```

1.9.2.1.2 Insert into t1 values (3,2,"b"),(324,324,"a");

```
-----STRUCTURE-----  
Insert  
into  
t1  
[]  
values  
[[3], [2], ["b"]]  
[[324], [324], ["a"]]  
result: test  
sql is correct!
```

*1.9.2.2 INSERT INTO table1 (name1, name2) VALUES (value1, value2), (value1, value2),...;*

1.9.2.2.1 Insert into t1(c1,c2,c5) values (3,2,4),(23,324,324);

```
-----STRUCTURE-----  
Insert  
into  
t1  
[c1, c2, c5]  
values  
[[3], [2], [4]]  
[[23], [324], [324]]  
result: test  
sql is correct!
```

## 1.9.3 INSERT FROM OTHER TABLE

*1.9.3.1 INSERT INTO table1 (column1, column2) SELECT column1, column2 FROM table2 where condition1;*

1.9.3.1.1 Insert into t1(c1,c2,c5) select c1 from t2 where c3 = 2;

```
-----STRUCTURE-----  
Insert  
into  
t1  
[c1, c2, c5]  
[select, [[c1]], from, [[t2]], where, [c3, =, 2]]  
result: test  
sql is correct!
```

1.9.3.1.2 Insert into t1(c1,c2,c5) select c1,c2 from t2 where c3 = 2;

```
-----STRUCTURE-----  
Insert  
into  
t1  
[c1, c2, c5]  
[select, [[c1], [c2]], from, [[t2]], where, [c3, =, 2]]  
result: test  
sql is correct!
```

1.9.3.1.3 Insert into t1(c1,c2,c5) select \* from t2 where c3 = 2;

```
-----STRUCTURE-----  
Insert  
into  
t1  
[c1, c2, c5]  
[select, *, from, [[t2]], where, [c3, =, 2]]  
result: test  
sql is correct!
```

*1.9.3.2 INSERT INTO table1 SELECT \* FROM departments;*

1.9.3.2.1 Insert into t1 select \* from t2 where c3 = 2;

```

-----STRUCTURE-----
Insert
into
t1
[]
[select, *, from, [[t2]], where, [c3, =, 2]]
result: test
sql is correct!

```

## 1.10 UPDATE

### 1.10.1 UPDATE table SET

*1.10.1.1 UPDATE table SET column1 = value1, column2 = value2 WHERE condition;*

1.10.1.1.1 UPDATE T1 SET column1 = value1, column2 = value2 WHERE column3 is not null;

```

-----STRUCTURE-----
UPDATE
T1
SET
[[column1, =, value1], [column2, =, value2]]
WHERE
[[column3, is, not null]]
result: test
sql is correct!

```

1.10.1.1.2 UPDATE T1 SET column1 = value1, column2 = value2 WHERE column3 like "%3";

```

-----STRUCTURE-----
UPDATE
T1
SET
[[column1, =, value1], [column2, =, value2]]
WHERE
[[column3, like, "%3"]]
result: test
sql is correct!

```

1.10.1.1.3 UPDATE T1 SET column1 = value1, column2 = value2 WHERE column3 in (2,6);

```
-----STRUCTURE-----  
UPDATE  
T1  
SET  
[[column1, =, value1], [column2, =, value2]]  
WHERE  
[[column3, in, [2, 6]]]  
result: test  
sql is correct!
```

1.10.2 UPDATE table with JOIN

*1.10.2.1 UPDATE table INNER JOIN (LEFT /RIGHT/FULL/CROSS JOIN)table1 ON table.column1 = table2.column1  
SET table.column2 = table1.coulmn2,... (WHERE);*

1.10.2.1.1 UPDATE T1 INNER JOIN table1 ON table.column1 = table2.column1 SET table.column2 =  
table1.coulmn2;

```
-----STRUCTURE-----  
UPDATE  
T1  
INNER  
JOIN  
table1  
ON  
[table.column1, =, table2.column1]  
SET  
[table.column2, =, table1.coulmn2]  
result: test  
sql is correct!
```

1.10.2.1.2 UPDATE T1 LEFT JOIN table1 ON table.column1 = table2.column1 SET table.column2 = table1.coulmn2 WHERE c3 = 4;

```
-----STRUCTURE-----  
UPDATE  
T1  
LEFT  
JOIN  
table1  
ON  
[table.column1, =, table2.column1]  
SET  
[table.column2, =, table1.coulmn2]  
WHERE  
[[c3, =, 4]]  
result: test  
sql is correct!
```

1.10.2.1.3 UPDATE T1 RIGHT JOIN table1 ON table.column1 = table2.column1 SET table.column2 = table1.coulmn2 WHERE c3 = 4;

```
-----STRUCTURE-----  
UPDATE  
T1  
RIGHT  
JOIN  
table1  
ON  
[table.column1, =, table2.column1]  
SET  
[table.column2, =, table1.coulmn2]  
WHERE  
[[c3, =, 4]]  
result: test  
sql is correct!
```

1.10.2.1.4 UPDATE T1 FULL JOIN table1 ON table.column1 = table2.column1 SET table.column2 = table1.coulmn2 WHERE c3 = 4;

```
-----STRUCTURE-----  
UPDATE  
T1  
FULL  
JOIN  
table1  
ON  
[table.column1, =, table2.column1]  
SET  
[table.column2, =, table1.coulmn2]  
WHERE  
[[c3, =, 4]]  
result: test  
sql is correct!
```

1.10.2.1.5 UPDATE T1 CROSS JOIN table1 ON table.column1 = table2.column1 SET table.column2 = table1.coulmn2 WHERE c3 = 4;

```
-----STRUCTURE-----  
UPDATE  
T1  
CROSS  
JOIN  
table1  
ON  
[table.column1, =, table2.column1]  
SET  
[table.column2, =, table1.coulmn2]  
WHERE  
[[c3, =, 4]]  
result: test  
sql is correct!
```

## 1.11 SELECT

### 1.11.1 SELECT SINGLE COLUMN

#### 1.11.1.1.1 SELECT column1 FROM tbname;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

### 1.11.2 SELECT MULTIPAL COLUMN

#### 1.11.2.1.1 SELECT column1,column2,column3 FROM tbname;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2], [column3]]  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

### 1.11.3 SELECT ALL COLUMN

#### 1.11.3.1.1 SELECT \* FROM tbname;

```
-----STRUCTURE-----  
SELECT  
*  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

#### 1.11.3.1.2 SELECT ALL FROM tbname;

```
-----STRUCTURE-----  
SELECT  
ALL  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

#### 1.11.4 SELECT WITH AS AND FROM

##### 1.11.4.1.1 SELECT column1,column2,column3 AS a FROM tbname;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2], [column3, AS, a]]  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

##### 1.11.4.1.2 SELECT column1,column2,column3 FROM tbname;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2], [column3]]  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

##### 1.11.4.1.3 SELECT column1 FROM tbname AS cs;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname, AS, cs]]  
result: test  
sql is correct!
```



1.11.4.1.4 SELECT column1 FROM tbname cs;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname, cs]]  
result: test  
sql is correct!
```

## 1.11.5 SELECT FROM MULTIPLE TABLES

1.11.5.1.1 SELECT column1 FROM a,b;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[a], [b]]  
result: test  
sql is correct!
```

## 1.11.6 SELECT WITH FUNTION

1.11.6.1.1 SELECT column1, FLOOR (DATEDIFF(NOW(), xxx\_date)) FROM tbname;

```
-----STRUCTURE-----  
SELECT  
[[column1], [NOW, xxx_date]]  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

1.11.6.1.2 SELECT column1, FLOOR (DATEDIFF(NOW(), xxx\_date)) AS a FROM tbname;

```
-----STRUCTURE-----  
SELECT  
[[column1], [NOW, xxx_date, AS, a]]  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

## 1.11.7 SELECT WITH ORDER BY

1.11.7.1.1 SELECT column1, column2 FROM tbname order by column1;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2]]  
FROM  
[[tbname]]  
order by  
[[column1]]  
result: test  
sql is correct!
```

1.11.7.1.2 SELECT column1, column2 FROM tbname order by column1 ASC, column2 DESC;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2]]  
FROM  
[[tbname]]  
order by  
[[column1, ASC], [column2, DESC]]  
result: test  
sql is correct!
```

1.11.7.1.3 SELECT DISTINCT column1,column2 FROM tbname;

```
-----STRUCTURE-----  
SELECT  
[[DISTINCT, column1], [column2]]  
FROM  
[[tbname]]  
result: test  
sql is correct!
```

1.11.8 SELECT WITH LIMIT

1.11.8.1.1 SELECT column1, column2 FROM tbname ORDER BY xx LIMIT 5 OFFSET3;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2]]  
FROM  
[[tbname]]  
ORDER BY  
[[xx]]  
LIMIT  
5  
OFFSET  
3  
result: test  
sql is correct!
```

## 1.11.9 SELECT WITH FETCH

1.11.9.1.1 SELECT column1, column2 FROM tname ORDER BY xx FETCH NEXT 3 ROWS ONLY;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2]]  
FROM  
[[tname]]  
ORDER BY  
[[xx]]  
FETCH  
NEXT  
3  
ROWS  
ONLY  
result: test  
sql is correct!
```

1.11.9.1.2 SELECT column1, column2 FROM tname ORDER BY xx ASC LIMIT 4 OFFSET 2 ROWS FETCH NEXT 3 ROWS ONLY ;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2]]  
FROM  
[[tname]]  
ORDER BY  
[[xx, ASC]]  
LIMIT  
4  
OFFSET  
2  
ROWS  
FETCH  
NEXT  
3  
ROWS  
ONLY  
result: test  
sql is correct!
```

1.11.9.1.3 SELECT column1, column2 FROM tname ORDER BY xx DESC, XX2 ASC LIMIT 7 OFFSET 2ROWS  
FETCH NEXT 3 ROWS;

```
-----STRUCTURE-----  
SELECT  
[[column1], [column2]]  
FROM  
[[tname]]  
ORDER BY  
[[xx, DESC], [XX2, ASC]]  
LIMIT  
7  
OFFSET  
2  
ROWS  
FETCH  
NEXT  
3  
ROWS  
ONLY  
result: test  
sql is correct!
```

1.11.9.1.4 SELECT AVG(column1), COUNT(column2) FROM tbname ORDER BY xx DESC, XX2 ASC LIMIT 7  
OFFSET 2ROWS FETCH NEXT 3 ROWS ONLY;

```
-----STRUCTURE-----  
SELECT  
[[AVG, column1], [COUNT, column2]]  
FROM  
[[tbname]]  
ORDER BY  
[[xx, DESC], [XX2, ASC]]  
LIMIT  
7  
OFFSET  
2  
ROWS  
FETCH  
NEXT  
3  
ROWS  
ONLY  
result: test  
sql is correct!
```

1.11.9.1.5 SELECT MAX(column1), MIN(column2) FROM tbname ORDER BY xx DESC, XX2 ASC LIMIT 7 OFFSET 2ROWS FETCH NEXT 3 ROWS ONLY;

```
-----STRUCTURE-----  
SELECT  
[[MAX, column1], [MIN, column2]]  
FROM  
[[tbname]]  
ORDER BY  
[[xx, DESC], [XX2, ASC]]  
LIMIT  
7  
OFFSET  
2  
ROWS  
FETCH  
NEXT  
3  
ROWS  
ONLY  
result: test  
sql is correct!
```

1.11.9.1.6 SELECT SUM(column1), column2 FROM tbname WHERE ASDF = 3 AND ADSF >5 AND AFAFAFDA IN (234,234,234) ORDER BY xx DESC, XX2 ASC;

```
-----STRUCTURE-----  
SELECT  
[[SUM, column1], [column2]]  
FROM  
[[tbname]]  
WHERE  
[[ASDF, =, 3], AND, [ADSF, >, 5], AND, [AFAFAFDA, IN, [234, 234, 234]]]  
ORDER BY  
[[xx, DESC], [XX2, ASC]]  
result: test  
sql is correct!
```

### 1.11.10 SELECT WITH WHERE

### 1.11.10.1.1 SELECT column1 FROM tbname WHERE a>b;(<,>,<=,>=,<!=);

```
-----STRUCTURE-----
SELECT
[[column1]]
FROM
[[tbname]]
WHERE
[[a, >, b]]
result: test
sql is correct!
```

```
-----STRUCTURE-----  
SELECT  
  [[column1]]  
FROM  
  [[tbname]]  
WHERE  
  [[a, <, b]]  
result: test  
sql is correct!
```

```
-----STRUCTURE-----
SELECT
[[column1]]
FROM
[[tbname]]
WHERE
[[a, <=, b]]
result: test
sql is correct!
```



```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, >=, b]]  
result: test  
sql is correct!
```

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, =, b]]  
result: test  
sql is correct!
```

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, !=, b]]  
result: test  
sql is correct!
```

1.11.10.1.2SELECT column1 FROM tbname WHERE c1>"b" AND c2>"c";

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[c1, >, "b"], AND, [c2, >, "c"]]  
result: test  
sql is correct!
```

1.11.10.1.3SELECT column1 FROM tbname WHERE c1>"b" or c2>"c";

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[c1, >, "b"], OR, [c2, >, "c"]]  
result: test  
sql is correct!
```

1.11.10.1.4SELECT column1 FROM tbname WHERE YEAR(c1)>3 AND c2>4;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[YEAR, c1, >, 3], AND, [c2, >, 4]]  
result: test  
sql is correct!
```

1.11.10.1.5SELECT column1 FROM tbname WHERE YEAR(c1)>3 OR NOT c2>4;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[YEAR, c1, >, 3], OR, [c2, >, 4]]  
result: test  
sql is correct!
```

1.11.10.1.6SELECT column1 FROM tbname WHERE a1 BETWEEN 231 AND 324;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, BETWEEN, 231, AND, 324]]  
result: test  
sql is correct!
```

1.11.10.1.7SELECT column1 FROM tbname WHERE a1 NOT BETWEEN 231 AND 324;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, NOT, BETWEEN, 231, AND, 324]]  
result: test  
sql is correct!
```

1.11.10.1.8SELECT column1 FROM tbname WHERE a1 IN(213,123,123);

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, IN, [213, 123, 123]]]  
result: test  
sql is correct!
```

1.11.10.1.9SELECT column1 FROM tbname WHERE a1 NOT IN(213,123,123);

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, not, IN, [213, 123, 123]]]  
result: test  
sql is correct!
```

1.11.10.1.10 SELECT column1 FROM tbname WHERE a1 LIKE 'ab'

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, NOT, LIKE, "ab"]]  
result: test  
sql is correct!
```

1.11.10.1.11 SELECT column1 FROM tbname WHERE a1 LIKE '%na'('adf%', '%da%')/'a\_\_ 'a\_'

-----STRUCTURE-----

```
SELECT
[[column1]]
FROM
[[tbname]]
WHERE
[[a1, LIKE, "%na"]]
result: test
sql is correct!
```

-----STRUCTURE-----

```
SELECT
[[column1]]
FROM
[[tbname]]
WHERE
[[a1, LIKE, "a%"]]
result: test
sql is correct!
```

-----STRUCTURE-----

```
SELECT
[[column1]]
FROM
[[tbname]]
WHERE
[[a1, NOT, LIKE, "__a"]]
result: test
sql is correct!
```

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, NOT, LIKE, "__a__"]]  
result: test  
sql is correct!
```

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, NOT, LIKE, "a__"]]  
result: test  
sql is correct!
```

1.11.10.1.12 SELECT column1 FROM tbname WHERE a1 NOT LIKE '%na'

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, NOT, LIKE, "%a"]]  
result: test  
sql is correct!
```

1.11.10.1.13 SELECT column1 FROM tbname WHERE a1 LIKE "%a\_";

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, LIKE, "%a_"]]  
result: test  
sql is correct!
```

1.11.10.1.14 SELECT column1 FROM tbname WHERE a1 LIKE "%a\_\_";

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, NOT, LIKE, "%a__"]]  
result: test  
sql is correct!
```

1.11.10.1.15 SELECT column1 FROM tbname WHERE a1 IS NOT NULL;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, IS, NOT NULL]]  
result: test  
sql is correct!
```

1.11.10.1.16 SELECT column1 FROM tbname WHERE a1 IS NULL;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a1, IS, NULL]]  
result: test  
sql is correct!
```

1.11.10.1.17 SELECT column1 FROM tbname WHERE a>b ORDER BY c1;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, >, b]]  
ORDER BY  
[[c1]]  
result: test  
sql is correct!
```

1.11.10.1.18 SELECT column1 FROM tbname WHERE a>b ORDER BY c1,d1;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, >, b]]  
ORDER BY  
[[c1], [d1]]  
result: test  
sql is correct!
```



### 1.11.11 SELECT WITH SUBQUERY

1.11.11.1.1 SELECT column1 FROM tbname WHERE a IN ( SELECT \* From tb1);

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, IN, [[SELECT, *, From, [[tb1]]]]]]  
result: test  
sql is correct!
```

1.11.11.1.2 SELECT column1 FROM tbname WHERE a IN ( SELECT c1 From tb1 where c1=3);

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, IN, [[SELECT, [[c1]], From, [[tb1]], where, [c1, =, 3]]]]]  
result: test  
sql is correct!
```

1.11.11.1.3 SELECT column1 FROM tbname WHERE a IN ( SELECT c1,c2 From tb1 where c1=3 and c2>100);

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, IN, [[SELECT, [[c1], [c2]], From, [[tb1]], where, [[c1, =, 3], and, [c2, >, 100]]]]]]  
result: test  
sql is correct!
```

1.11.11.1.4SELECT column1 FROM tbname WHERE a IN ( SELECT c1,c2 From tb1 where c1=3 and c2 in (2,3));

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[c2, in, [2, 3]], [a, IN, [[SELECT, [[c1], [c2]], From, [[tb1]], where, [[c1, =, 3], and]]]]]  
result: test  
sql is correct!
```

1.11.11.1.5SELECT column1 FROM tbname WHERE a IN ( SELECT all From tb1 where c1 like "ab");

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, IN, [[SELECT, all, From, [[tb1]], where, [c1, like, "ab"]]]]]]  
result: test  
sql is correct!
```

1.11.11.1.6SELECT column1 FROM tbname WHERE a IN ( SELECT all From tb1 where c1 like "ab" order by c4);

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbname]]  
WHERE  
[[a, IN, [[SELECT, all, From, [[tb1]], where, [c1, like, "ab"], order by, [[c4]]]]]]]  
result: test  
sql is correct!
```

### 1.11.12 SELECT WITH JOIN

1.11.12.1.1SELECT column1 FROM tbnam INNER JOIN cvad ON adf.adf = df.adf;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbnam]]  
INNER  
JOIN  
cvad  
ON  
[adf.adf, =, df.adf]  
result: test  
sql is correct!
```

1.11.12.1.2SELECT column1 FROM tbnam INNER JOIN cvad ON adf.adf = df.adf order by aa;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbnam]]  
INNER  
JOIN  
cvad  
ON  
[adf.adf, =, df.adf]  
order by  
[[aa]]  
result: test  
sql is correct!
```

1.11.12.1.3SELECT column1 FROM tbnamE INNER JOIN cvad ON adf.adf = df.adf group by caf;

```
-----STRUCTURE-----  
SELECT  
[[column1]]  
FROM  
[[tbnamE]]  
INNER  
JOIN  
cvad  
ON  
[adf.adf, =, df.adf]  
group by  
[[caf]]  
result: test  
sql is correct!
```

1.11.12.1.4SELECT a1.n FROM a1 INNER JOIN b1 ON b1.n = a1.n INNER JOIN c ON c1.n = a1.n;

```
-----STRUCTURE-----  
SELECT  
[[a1.n]]  
FROM  
[[a1]]  
INNER  
JOIN  
b1  
ON  
[b1.n, =, a1.n]  
INNER  
JOIN  
c1  
ON  
[c1.n, =, a1.n]  
result: test  
sql is correct!
```

1.11.12.1.5SELECT a1.n FROM a1 INNER JOIN b1 ON b1.n = a1.n INNER JOIN c ON c1.n = a1.n order by c2;

-----STRUCTURE-----

```
SELECT
[[a1.n]]
FROM
[[a1]]
INNER
JOIN
b1
ON
[b1.n, =, a1.n]
INNER
JOIN
c1
ON
[c1.n, =, a1.n]
order by
[[c2]]
result: test
sql is correct!
```

1.11.12.1.6SELECT a1.n FROM a1 INNER JOIN b1 ON b1.n = a1.n INNER JOIN c1 ON c1.n = a1.n where c1=3;

```
-----STRUCTURE-----  
SELECT  
[[a1.n]]  
FROM  
[[a1]]  
INNER  
JOIN  
b1  
ON  
[b1.n, =, a1.n]  
INNER  
JOIN  
c1  
ON  
[c1.n, =, a1.n]  
where  
[[c1, =, 3]]  
result: test  
sql is correct!
```

1.11.12.1.7SELECT a1.n FROM a1 LEFT JOIN b1 ON b1.n = a1.n;

```
-----STRUCTURE-----  
SELECT  
[[a1.n]]  
FROM  
[[a1]]  
LEFT  
JOIN  
b1  
ON  
[b1.n, =, a1.n]  
result: test  
sql is correct!
```

1.11.12.1.8SELECT a1.n FROM a1 LEFT JOIN b1 ON b1.n = a1.n LEFT JOIN c1 ON c1.n = a1.n ;

```
-----STRUCTURE-----  
SELECT  
[[a1.n]]  
FROM  
[[a1]]  
LEFT  
JOIN  
b1  
ON  
[b1.n, =, a1.n]  
LEFT  
JOIN  
c1  
ON  
[c1.n, =, a1.n]  
result: test  
sql is correct!
```

1.11.12.1.9SELECT a1.n FROM a1 FULL JOIN b1 ON b1.n = a1.n;

```
-----STRUCTURE-----  
SELECT  
[[a1.n]]  
FROM  
[[a1]]  
FULL  
JOIN  
b1  
ON  
[b1.n, =, a1.n]  
result: test  
sql is correct!
```

1.11.12.1.10 SELECT a1.n FROM a1 CROSS JOIN b1 ON b1.n = a1.n;

-----STRUCTURE-----

```
SELECT
[[a1.n]]
FROM
[[a1]]
CROSS
JOIN
b1
ON
[b1.n, =, a1.n]
result: test
sql is correct!
```