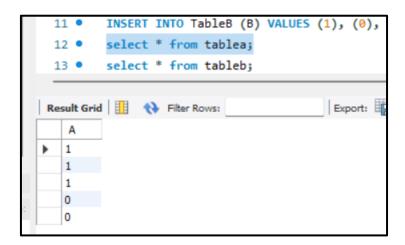
SQL-JOINS

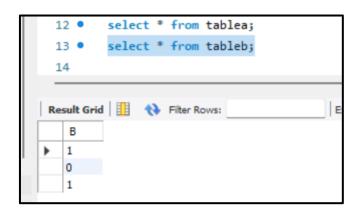
```
use sql_joins;
show tables;
CREATE TABLE TableA (
   A INT
);
INSERT INTO TableA (A) VALUES (1), (1), (1), (0), (0);

CREATE TABLE TableB (
   B INT
);
INSERT INTO TableB (B) VALUES (1), (0), (1);
```

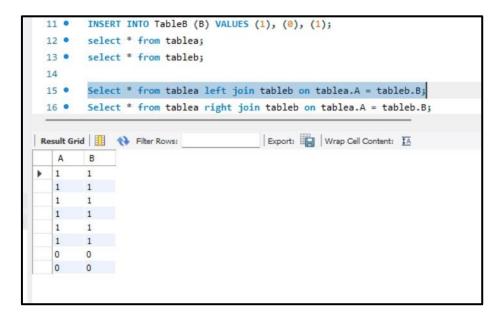
select * from tablea;



select * from tableb;



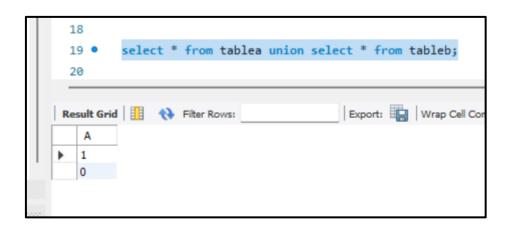
Select * from tablea left join tableb on tablea.A = tableb.B;



Select * from tablea right join tableb on tablea.A = tableb.B;

Select * from tablea inner join tableb on tablea.A = tableb.B;

Select * from tablea union Select * from tableb;



Notes:

```
SELECT column name(s)
FROM table name
WHERE condition
GROUP BY column name(s)
ORDER BY column_name(s);
SELECT column_name(s)
FROM table name
WHERE condition
GROUP BY column name(s)
HAVING condition
ORDER BY column name(s);
SELECT column name(s)
FROM table name
WHERE EXISTS
(SELECT column name FROM table name WHERE condition);
SELECT COUNT (column name)
FROM table name
WHERE condition;
SELECT SUM (column name)
FROM table name
WHERE condition;
SELECT AVG(column name)
FROM table name
WHERE condition;
SELECT DISTINCT column1, column2, ...
FROM table name;
```

- MIN() returns the smallest value within the selected column
- MAX() returns the largest value within the selected column
- COUNT() returns the number of rows in a set
- SUM() returns the total sum of a numerical column
- AVG() returns the average value of a numerical column

SQL Server / MS Access Syntax:

```
SELECT TOP number|percent column_name(s)
FROM table_name
WHERE condition;
```

MySQL Syntax:

```
SELECT column_name(s)
FROM table_name
WHERE condition
LIMIT number;
```

```
SELECT column_name(s)
FROM table_name
WHERE condition
LIMIT number OFFSET SkipRows;
```

```
SELECT column1, column2, ...
FROM table_name
WHERE columnN LIKE pattern;
```

- The percent sign % represents zero, one, or multiple characters
- The underscore sign _ represents one, single character
- a%=> axx
- %a=>xxa
- %a%=>xxaxx
- a%=>xaxx
- a%0=>axx0
- a %=>axxxx(minimum 3 character)

SCRIPT

```
use sql_joins;
show tables;
CREATE TABLE TableA (
    A INT
);
INSERT INTO TableA (A) VALUES (1), (1), (0), (0);
```

```
CREATE TABLE TableB (
    B INT
);
INSERT INTO TableB (B) VALUES (1), (0), (1);
select * from tablea;
select * from tableb;
Select * from tablea left join tableb on tablea.A = tableb.B;
Select * from tablea right join tableb on tablea.A = tableb.B;
Select * from tablea inner join tableb on tablea.A = tableb.B;
select * from tablea union select * from tableb;
select * from tablea
group by A;
#1,0
select * from tablea
where tablea.A=tablea.A
group by A;
#1,0
select * from tablea
group by A
order by A ASC;
#0,1
select * from tablea
where tablea.A=tablea.A
group by A
order by A ASC;
#0,1
select * from tablea
order by A ASC;
#0,0,1,1,1
select * from tablea
where tablea.A=tablea.A
group by A
having tablea.A !=0
order by A ASC;
#1
select * from tablea
group by A
having tablea.A !=0;
```

```
select * from tablea
group by A
having tablea.A !=1;
#0
select * from tablea
where exists
(select A from tablea where tablea.A =2);
#zero rows
select * from tablea
where exists
(select A from tablea where tablea.A =0);
#1,1,1,0,0
select count(*) from tablea;
#5
select count(*) from tablea
where tablea.A =1;
#3
select sum(A) from tablea
where tablea.A =1;
#3
select * from tablea limit 0;
#zero rows
select * from tablea limit 1;
select * from tablea limit 5;
#1,1,1,0,0
select A from tablea limit 3 offset 2;
#1,0,0
select A from tablea limit 2 offset 3;
select A from tablea limit 1 offset 2;
#1
```

