#Types of Join

#1. Cross Join

#2. Natural Join

#3. Inner Join

#4. Outer Join

#5. Left Outer Join

#6. Right Outer Join

#7. self join

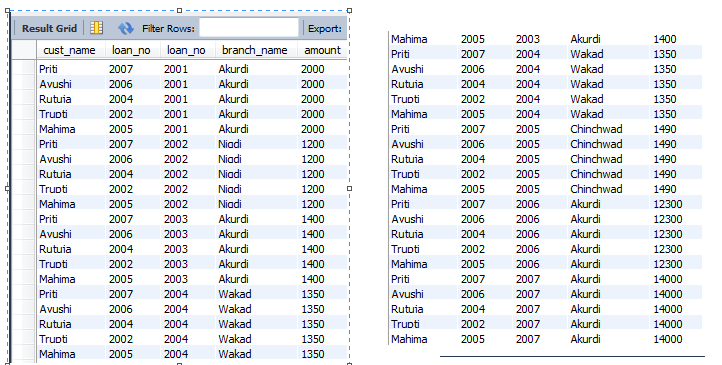
#1. cross join

#Q1. Find all customers who have a loan from bank. Find their names,loan\_no and loan amount.

#borrower X loan - Cartcian Product m\*n rows

select \* from borrower b, loan l;

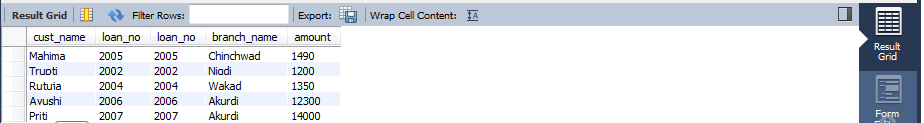
select \* from borrower b cross join loan l;



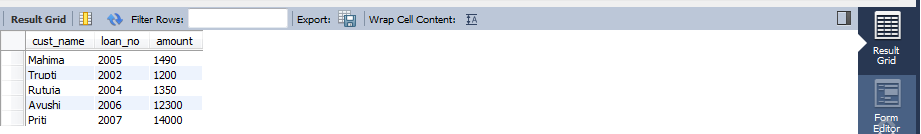
#2.Natural Join

#Q1. Find all customers who have a loan from bank. Find their names,loan\_no and loan amount.

select \* from borrower b, loan l where b.loan\_no = l.loan\_no;



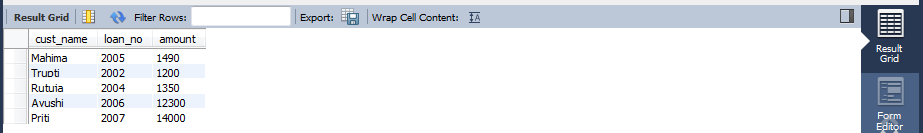
select b.cust\_name, l.loan\_no, l.amount from borrower b, loan l where b.loan\_no = l.loan\_no;



#3. Inner Join

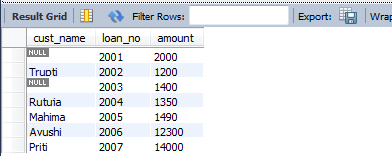
#Q1. Find all customers who have a loan from bank. Find their names, loan\_no and loan amount.

select b.cust\_name,b.loan\_no,l.amount from borrower b inner join loan l on b.loan\_no=l.loan\_no;

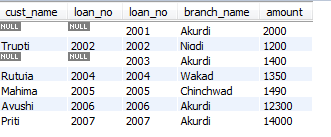


#4. Right Outer Join

select b.cust\_name,l.loan\_no,l.amount from borrower b right join loan l on b.loan\_no=l.loan\_no;

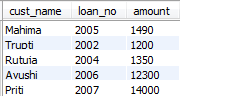


select \* from borrower b right join loan l on b.loan\_no=l.loan\_no;



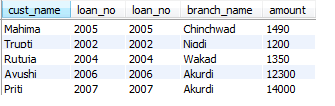
#5. Left Outer Join

select b.cust\_name,l.loan\_no,l.amount from borrower b left join loan l on b.loan\_no=l.loan\_no;

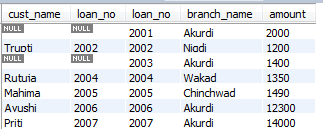


#6.Full Outer Join

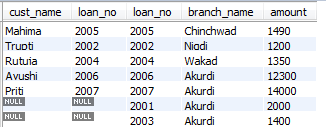
select \* from borrower b left join loan l on b.loan\_no=l.loan\_no;



select \* from borrower b right join loan l on b.loan\_no=l.loan\_no;



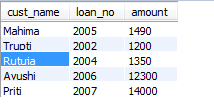
select \* from borrower b left join loan l on b.loan\_no=l.loan\_no union select \* from borrower b right join loan l on b.loan\_no=l.loan\_no;



#7.self join

#Q1. Find all customers who have a loan from bank. Find their names, loan\_no and loan amount.

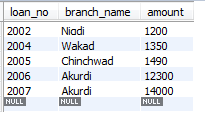
select b.cust\_name,b.loan\_no,l.amount from borrower b inner join loan l on b.loan\_no=l.loan\_no;



#Subquery

#Q1. Find all loans who have a loan from bank.

select \* from loan where loan\_no in(select loan\_no from borrower);



select \* from loan where amount < (select max(amount) from loan);

