

direct one-to-one

2 tables are said to be in one-to-one relationship, when a record in one table is in relationship with only one record of another table.

In case of direct one-to-one relationship between the tables:

- 1. The child/dependent table doesnt have independent identity of its own.
- 2. The records in child/dependent table doesnt have existence without the record in the primary key/parent table

For eg.. between auto_loan and loan_disbursement tables

- 1. auto_loan table: loan_no is the identity or primary key column

For each loan that is created/applied, when it is approved, the loan will be disbursed, so the dis-bursement information will be stored aspart of loan_disbursement table.

For each loan that is issued, there will be only one loan_disbursement information will be there (or) every loan_disbursement is done for only one loan. So the relationship between these 2 tables is one-to-one.

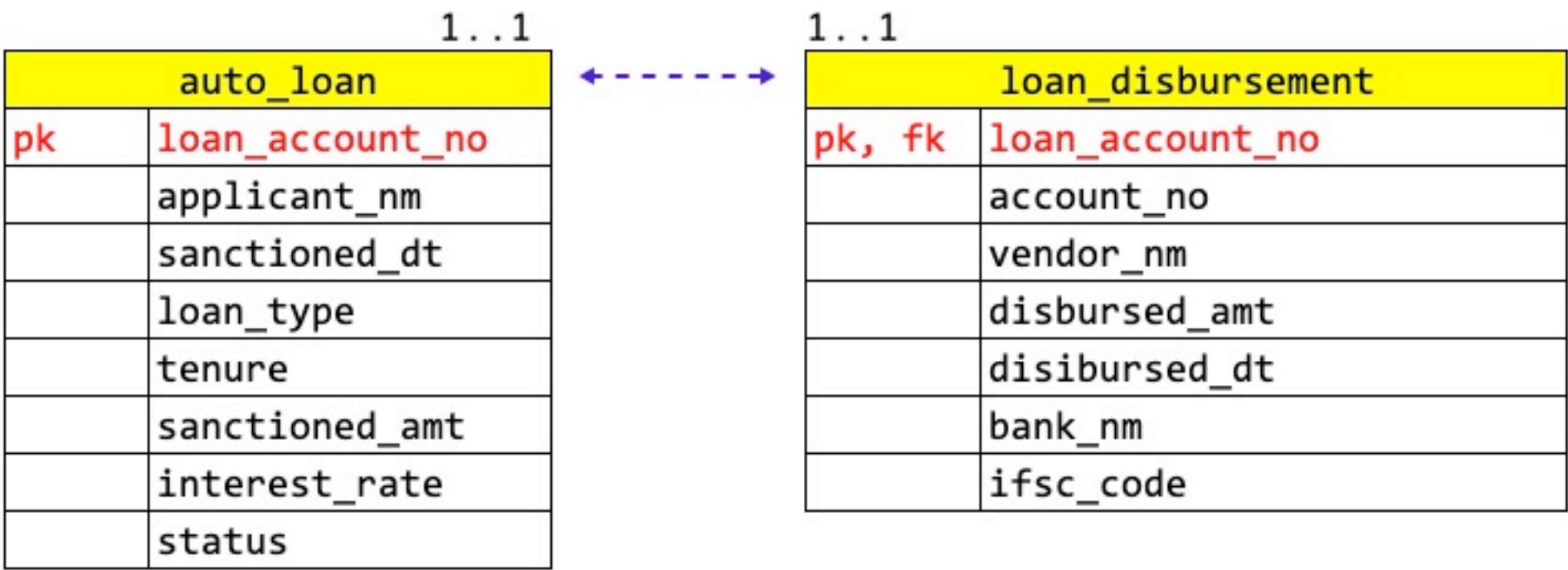
But if we observe the loan_disbursement doesnt have:

- 1. its own identity, we dont need any disbursement_no for the data that we store in loan_disbursement table. Always we search for disbursement information for a loan using loan_no itself
- 2. There will be never a record in the loan_disbursement table, unless we have an corresponding record in loan table.

Based on these above aspects we can think of establishing the one-to-one relationship between these 2 tables:

- 1. by writing loan_no (pk) of loan table as primary key of loan_disbursement table: because loan_disbursement also is identified based on loan_no only
- 2. along with this we need to make loan_no in loan_disbursement table as foreign key because unless there is a record in loan table we cannot have a record in loan_disbursement

so based on this, the tables looks as below.



- 1. by writing loan_account_no as fk we are enforcing the constraint saying there can be loan_disbursement only when there is an loan
- 2. since loan_disbursement doesnt have separate identity and there exists only one loan_disbursement for a loan we are making even the foreign key as primary key

