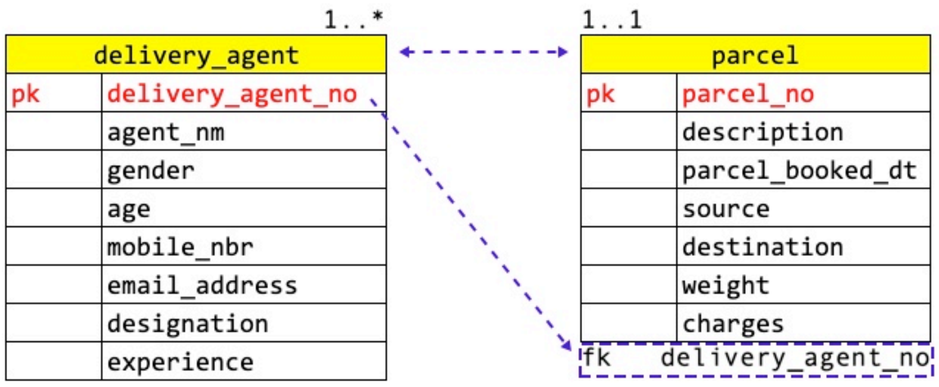
#1. one-to-many relationship

Each record in my table is in relationship with multiple/many records of another table, then the tables are said to be in one-to-many relationship.
Note:- Always the relationships are derived based on business assumptions only.

Rule:-
1. For the table to participate in relationship with other table, it should have an primary key column.
2. Read the relationship between the tables from both the ends.
3. while reading the relationship, always consider one record of my table is in relationship with how many records of another table

Let us consider an example below to understand:



- one delivery agent can delivery many/multiple parcels (1..*)
- one parcel is delivered by only one agent (1..1)

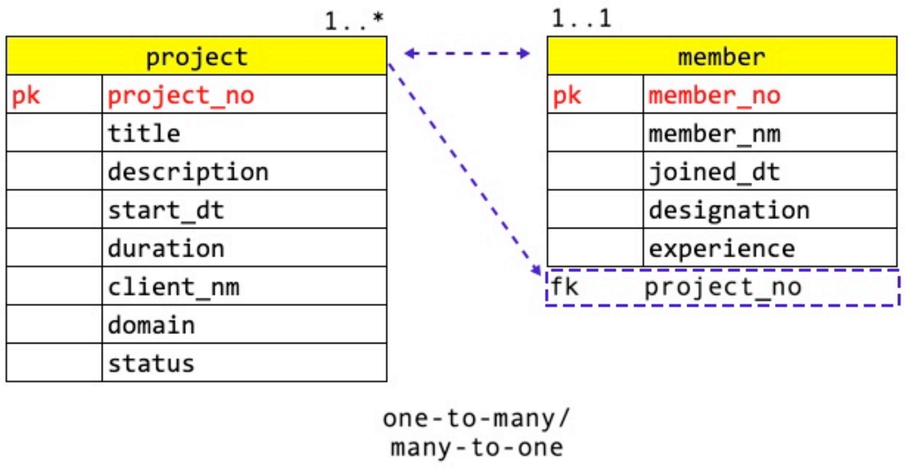
so by reading from both the sides of the relationship we can understand the tables should be in one-to-many relationship.

How to establish one-to-many relationship between these 2 tables?
To establish relationship between the tables, we need to write primary key of one table as an foreign key in another table. Here we can write either delivery_agent_no (pk) of delivery_agent table as foreign_key in parcel or parcel_no(pk) of parcel table can be written as foreign key in delivery_agent table

Let us understand which one will works:
1. parcel_no (pk) of parcel table as foreign_key in delivery_agent table:
if we write parcel_no (pk) as foreign key in delivery_agent table, the a delivery agent can only deliver one parcel in his lifetime, this is wrong option

2. delivery_agent_no (pk) of delivery_agent table as foreign_key in parcel table:
if we write delivery_agent_no (pk) as foreign key in parcel table, then each parcel is delivered by only one delivery_agent and a delivery_agent can deliver many parcels. Correct Choice.

#2 example



From the above examples we can derive always the foreign key column will be exists on the many-side of the relationship