* A restaurant can have many items and same item may be in many restaurants .Hence it is M:N relationship.
* A customer can have more than one payment method and many customers can have same payment method. Hence it is an M:N relationship.
* A customer can place many orders while an order is placed by only one customer. Hence it is a 1:N relationship and total participation from orders.
* An order can be paid by only one payment method while a payment method can be used to pay many order. Hence there is a N:1 relationship and there is a total participation from payment methods.
* When an order is placed it has a stages i.e at what time is it placed, at what time the the order is accepted/rejected by the restaurant, at what time the order is picked up by the delivery boy and at what time is it delivered.Hence it is in 1:N relationship and total participation from order\_status.
* A order may have many items and same item can be involved in many orders .Hence it is a M:N relationship . Since every order should have atleast one items there is total participation from orders.
* Every ordered item may/may not have a rating corresponding to that order while if an ordered item has rating it must be associated with atleast one order .Hence it is a M:N relationship with items\_rating .Since every order and every ordered item may not having a rating there can’t be total participation from either side.
* A delivery boy can deliver many orders while an order can be delivered by only one delivery boy .Hence it is a N:1 relationship.If an order is not placed/rejected due to any reason then an order can’t have a delivery boy .Hence there can’t be total participation from orders.
* Every order delivered by delivery boy may/may not have a rating corresponding to that order while every delivery rating will have only one order associated with it. Hence there is 1:1 relationship.Since every order may not have a delivery rating there is no participation from orders.
* A delivery boy may have many delivery ratings while a delivery rating is associated with only one customer. Hence it is 1:N relationship . Since every delivery boy may not have rating it can’t be total participation from delivery boy.
* Customer can order only from one restaurant at once but each restaurant can be involved in multiple orders (N :1). Since every customer may not rate the restaurant there wont be total participation from orders .
* Customer can apply only one coupon per order but a coupon can be applied on multiple orders if it is applicable (1:N) . A coupon can be available for multiple restaurants and a restaurant can have multiple offers (M:N) .Since every customer may not apply a coupon there wont be total participation from coupons to orders .
* Location table stores the locality for every pincode which will be referenced from restaurant and orders entities . As many restaurants and delivery addresses can have same pincode it will be many to one relationship .