## Database Project P2. Final ERD and Description of Design Revisions

## Team 10

As suggested in the feedback for our first draft, we amended a couple of factors in our ERD design for the meal delivery distribution system, summarized as follows:

- Fixed the Primary Key-Foreign Key relations between the tables
- Introduced an OrderItem Table that will connect Orders to Items, since the relation between the two tables is Many:Many
- The OrderItemID in the OrderItemTable is a surrogate key formed with a combination of ItemID and OrderID
- Added a Discount and DiscountType Table to our schema to keep track of discounts availed by customers
- Restructured the Rating and Review Tables, added Foreign Keys RestaurantID and DeliveryID to the Review Tables, so a customer can add a review separately for the food quality as well as the delivery service
- Transformed the Rating table to be normalized/eliminate redundant data

tblTIMESTAMP ▼ TimeStampID

DeliveryTime OrderTime TimeStampType tbIORDER tbIDELIVERY ? OrderID PeliveryID

DeliveryFees CustomerID DeliveryID DiscountID TimeStampID TimeStampID DeliveryPersonID RestaurantID Amount tbIDELIVERYPERSON P DeliveryPersonID tbIDISCOUNT DeliveryPersonName DiscountID

DiscountTypeID ContactNumber DiscountAmount tbICUSTOMER LocationID CustomerName tblREVIEW ContactNumber tbIDISCOUNTTYPE ReviewID RatingID DiscountTypeID DiscountType Comment StartDate ReviewFor DeliveryID tbILOCATION LocationType StreetName CityID tbIRATING RatingID RatingDescription StarRating tblCITY City state Zipcode tbIRESTAURANT RestaurantName ContactNumber tblITEM ItemCategory CuisineName tbIORDERITEM ItemQuantity LineTotal

OrderItemID

Team 10: ERD Schema for Meal Delivery System