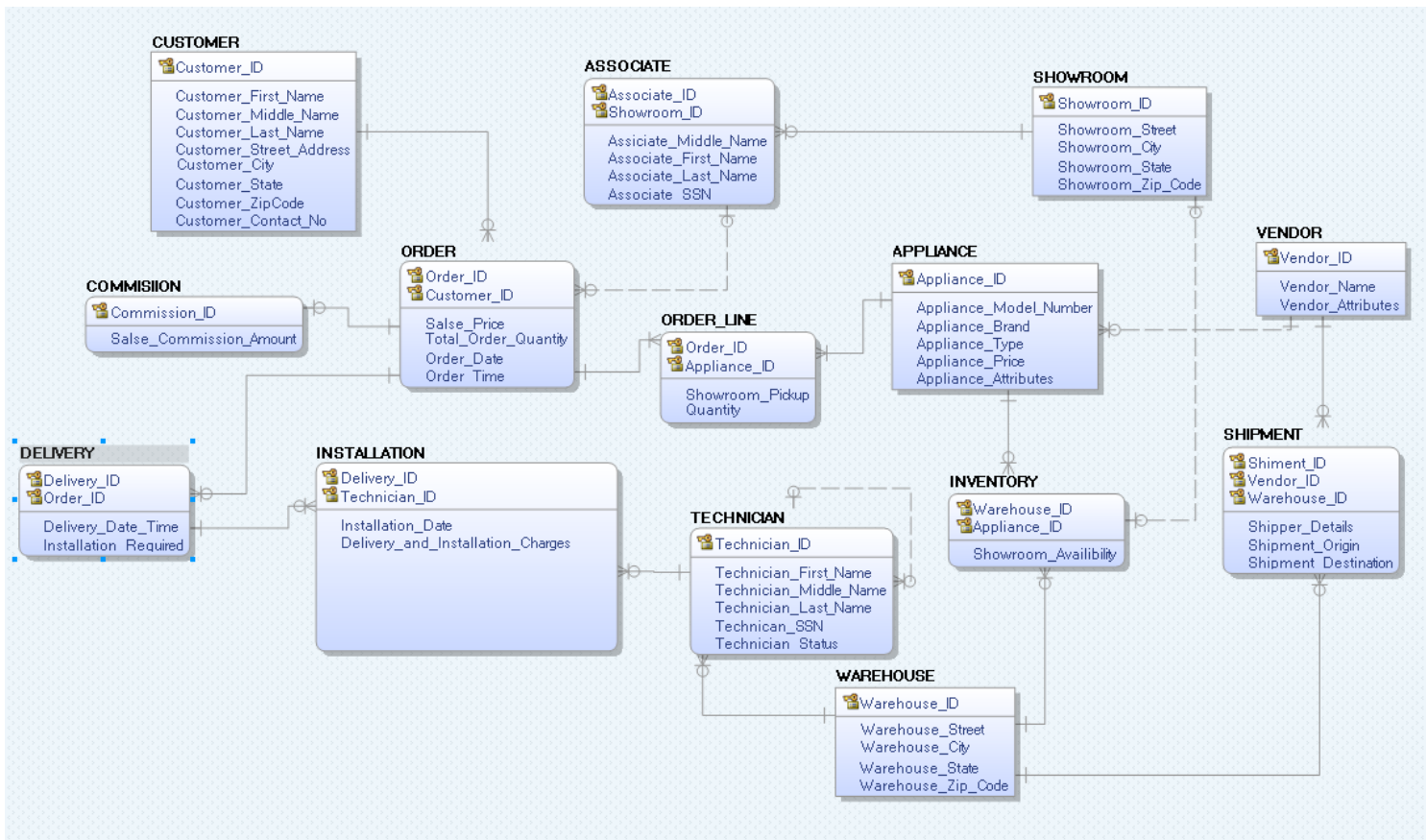# Assignment 1

DATA MANAGEMENT- MIS 6326

KULKARNI, PIYUSH – pxk161130

Assumptions:

- Vendor of the product ships the appliances to warehouses only.
- Sometimes customer can go to the showroom and buy the product directly without any assistance from any associate and there will be no commission in this case.
- There is only one direct supervisor to a technician.
- Installation is made at the time of delivery only.
- If, the technician status is trainee, he will be accompanied by his supervisor; this logic is implemented in the frontend code when a technician gets assigned to a delivery.

Relational Schema:

CUSTOMER (**Customer_ID,** Customer_First_Name, Customer_Middle_Name, Customer_Last_Name, Customer_Street_Address, Customer_City, Customer_State, Customer_ZipCode, Customer_Contact_No)

SHOWROOM (**Showroom_ID**, Showroom_Street, Showroom_City, Showroom_State, Showroom_Zip_Code)

ASSOCIATE (**Associate_ID,** Associate_First_Name, Assiciate_Middle_Name, Associate_Last_Name, Associate_SSN, **_Showroom_ID_**)

ORDER (**Order_ID,** Salse_Price, Total_Order_Quantity, Order_Date, Order_Time, **_Customer_ID_**, _Associate_ID_)

APPLIANCE (**Appliance_ID,** Appliance_Model_Number, Appliance_Brand, Appliance_Type, Appliance_Price, Appliance_Attributes, *Vendor_ID*)

ORDER_LINE (***Order_ID***, Showroom_Pickup, Quantity, ***Appliance_ID, Customer_ID***)

COMMISSION (**Commission_ID**, Salse_Commission_Amount, ***Order_ID***)

VENDOR (**Vendor_ID**, Vendor_Name, Vendor_Attributes)

SHIPMENT (**Shiment_ID,** Shipper_Details, Shipment_Origin, Shipment_Destination, ***Vendor_ID, Warehouse_ID***)

WAREHOUSE (**Warehouse_ID**, Warehouse_Street, Warehouse_City, Warehouse_State, Warehouse_Zip_Code)

INVENTROY (Showroom_Availibility, ***Warehouse_ID***, ***Appliance_ID***, *Showroom_ID*)

TECHNICIAN (**Technician_ID,** Technician_First_Name, Technician_Middle_Name, Technician_Last_Name, Technican_SSN, Technician_Status, ***Warehouse_ID***, *Supervisior_ID*)

DELIVERY (**Delivery_ID**, Delivery_Date_Time, Installation_Required, ***Order_ID,***)

INSTALLATION (***Delivery_ID, Technician_ID***, Installation_Date, Delivery_and_Installation_Charges)