**ER-Model**

**Group: Carpe Data**

**BoutiqueCoffee Database – Phase #1**

STORE(store\_ID, name, store\_type, gps\_Long, gps\_Lat)

COFFEE(coffee\_ID, name, description, country\_of\_origin, intensity, price, reward\_points, redeem\_points)

CUSTOMER(customer\_ID, first, last, middle\_initial, day\_of\_birth, month, loyalty\_level, points\_earned)

PHONE(customer\_ID, phone\_number, phone\_type)

FK(customer\_ID) 🡪 CUSTOMER(customer\_ID)

SALE(sale\_ID, customer\_ID, store\_ID, coffee\_ID, quantity, purchase\_time, purchase\_portion, redeem\_portion)

FK(customer\_ID) 🡪 CUSTOMER(customer\_ID)

FK(store\_ID) 🡪 STORE(store\_ID)

FK(coffee\_ID) 🡪 COFFEE(coffee\_ID)

PARTICIPATES(promotion\_ID, store\_ID)

FK(promotion\_ID) 🡪 PROMOTION(promotion\_ID)

FK(store\_ID) 🡪 STORE(store\_ID)

PROMOTION(promotion\_ID, name, start\_date, end\_date, promoted\_coffees, list\_of\_stores)

Assumptions:

Membership is a 1:1 participation with customer and so its attributes will simply be included in the customer relation.

Customer can only have 1 type of membership at a time and thus cannot be a multivalued variable

Each Sale entry of coffee (single/multiple types of coffee) can only be recorded as one type per entry with any amount of quantity per entry.

**Perhaps a multi-value variable for Booster?**

basic, bronze, silver, gold, platinum, and diamond

1.2, 1.5, 2, 2.5, 3, 4