**NOTE :**

**NORMAL FORM OF ALL FDS IS 3NF. THIS WAS ONE OF THE RECOMMENDED REQUIREMENT WHICH WE ENSURED.**

**WALLET**(CUSTOMERID, BRANDID, POINTSEARNED, POINTSREDEEMED, TIER, MULTIPLIER)

FD’s:

* CUSTOMERID, BRANDID -> POINTSEARNED, POINTSREDEEMED, TIER, MULTIPLIER

**TIER**(BRANDID, TIERLEVEL, TIERNAME, POINTSREQUIRED, MULTIPLIER)

FD’s:

* BRANDID, TIERLEVEL -> TIERNAME, POINTSREQUIRED, MULTIPLIER

**RRRULETABLE**(BRANDID, REWARDCATEGORYCODE, VERSION, INSTANCES, POINTS)

FD’s:

* BRANDID, REWARDCATEGORYCODE, VERSION -> POINTS, INSTANCES

**RERULETABLE**(BRANDID, ACTIVITYCATEGORYCODE, VERSION, POINTS)

FD’s:

* BRANDID, ACTIVITYCATEGORYCDE, VERSION -> POINTS

**REWARDCATEGORY**(REWARDCATEGIRYCODE, NAME)

FD’s:

* REWARDCATEGORYCODE -> NAME

**ACTIVITYCATEGORY**(ACTIVITYCATEGORYCODE, NAME)

FD’s:

* ACTIVITYCATEGORYCODE -> NAME

**REWARDACTIVITY**(CUSTOMERID,BRANDID, REWARDCATEGORYCODE, REWARDDATE, POINTSREDEEMED,VERSION)

FD’s: CUSTOMERID,BRANDID,REWARDCATEGORYCODE, REWARDDATE,VERSION -> POINTSREDEEMED

**LOYALTYACTIVITY**(CUSTOMERID, BRANDID, ACTIVITYCATEGORYCODE, ACTIVITYDATE, POINTSEARNED, VERSION)

FD’s: CUSTOMERID, BRANDID,ACTIVITYCATEGORYCODE,VERSION, ACTIVITYDATE -> POINTSEARNED

**LP**(LOYALTYPROGRAMCODEID, NAME, STATE, BRANDID, TIER)

FD’s:

* LOYALTYPROGRAMCODEID -> BRANDID, NAME, STATE, TIER
* BRANDID -> LOYALTYPROGRAMCODEID

**ENROLLED**(CUSTOMERID, BRANDID, NAME)

FD’s:

* CUSTOMERID, BRANDID-> NAME

**CUSTOMER**(CUSTOMERID, PASSWORD, CUSTOMERNAME, PHONE, ADDRESS)

FD’s:

* CUSTOMERID -> PASSWORD CUSTOMERNAME, PHONE, ADDRESS

**BRAND\_REWARDTYPE**(BRANDID, REWARDCATEGORYCODE, INSTANCES)

FD’s:

* BRANDID, REWARDCATEGORYCODE -> INSTANCES

**BRAND\_ACTIVITYTYPE**(BRANDID, ACTIVITYCATEGORYCODE)

FD’s:

* BRANDID, ACTIVITYCATEGORYCODE -> BRANDID, ACTIVITYCATEGORYCODE

**BRAND**(BRANDID, PASSWORD, BRANDNAME, JOINDATE, ADDRESS)

FD’s:

* BRANDID -> PASSWORD, BRANDNAME, JOINDATE, ADDRESS

**ADMIN**(ADMINID, PASSWORD)

FD’s:

* ADMINID -> PASSWORD