• The data model follows a **STAR schema design**, dim\_user and dim\_brand are the dimension tables and fact\_receipt is the fact

## • Relationships :

- dim\_user to fact\_receipt Zero to many, i.e. a user may not be associated with a receipt or maybe be associated with many
- fact\_receipt to dim\_user One to One, i.e. a receipt must atleast have one user and also can't have more than one user associated with it
- · dim\_brand to fact\_receipt Zero to many, i.e. a brand may not be associated with a receipt or maybe be associated with many
- fact\_receipt to dim\_brand One to One, a receipt must atleast have one brand and also can't have more than one brand (Assumption : every receipt must have a brand for reward redemption process and a receipt can't have multiple brands)

## Join Keys:

- dim\_user.user\_id = fact\_receipt.user\_id
  dim\_brand.brandCode = fact\_receipt.brandCode
- Note about PK(Primary kety) and FK (Foreign Key:
- user\_id from the dim\_user table could have been a PK candidate but it has duplicate values (Refer data quality section) • brand\_id from dim\_brand is a PK since it is unique (Refer data quality section). If brand\_id is captured as part of fact\_receipt
- table there could be a PK-FK relationship between dim\_brand and fact\_receipt with brand\_id as join key

## dim\_user

user\_id

active

createdDate

lastLogin

role

signUpSource state

## fact\_receipt

receipt\_id

bonusPointsEarned

bonusPointsEarnedReason

createDate

dateScanned

finishedDate modifyDate

pointsAwardedDate

pointsEarned

purchaseDate

purchasedItemCount

rewardsReceiptStatus

totalSpent userId

barcode

description

finalPrice

itemPrice

needsFetchReview

partnerItemId

prevent Target Gap PointsquantityPurchased

userFlaggedBarcode

userFlaggedNewItem

userFlaggedPrice

userFlaggedQuantity needsFetchReviewReason

pointsNotAwardedReason

pointsPayerId

rewardsGroup rewardsProductPartnerId

userFlaggedDescription

original Meta Brite Barcode

originalMetaBriteDescription

brandCode

competitorRewardsGroup

discountedItemPrice originalReceiptItemText

itemNumber

originalMetaBriteQuantityPurchased

rilpointsEarned

targetPrice competitiveProduct

originalFinalPrice

originalMetaBriteItemPrice

deleted

priceAfterCoupon metabriteCampaignId dim\_brand

brand\_id (PK)

barcode

category

categoryCode

cpg name

TopBrand

brandCode