**MILESTONE 3 SUBMISSION**

**Group -6** *: Jovita Roshini Arulsamy , Swetha Krishnakumar , Petha Perumal Subramanian*

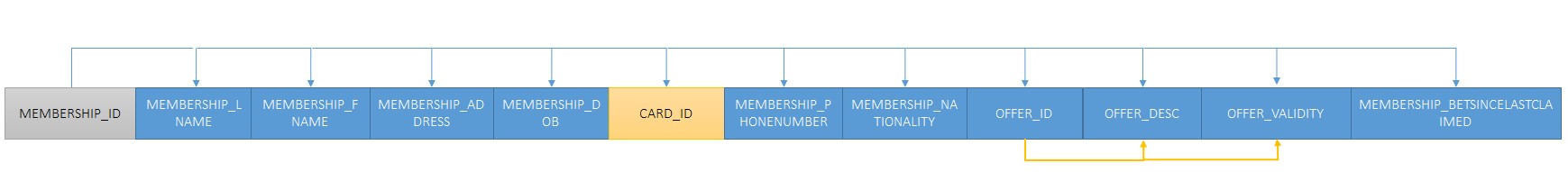
**1st Normal Form** :

Entity: MEMBERSHIP

Transitive Dependencies Exists : OFFER\_ID -> OFFER\_DESC, OFFER\_VALIDITY

Relational Schema :

Membership(**Membership\_ID**,Membership\_LName,Membership\_FName,Membership\_Address,Membership\_DOB,Card\_ID,Membership\_HomeNumber,Membership\_Nationality,Offer\_ID,Offer\_Desc,Offer\_Validity,Membership\_BetSinceLastClaimed)



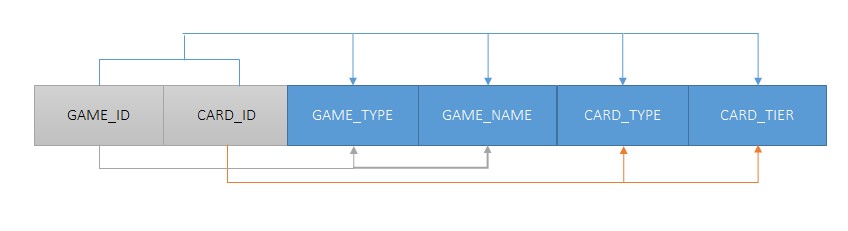
Entity : CARD\_GAME

Partial Dependencies Exists : CARD\_ID -> CARD\_TYPE,CARD\_TIER

# GAME\_ID -> GAME\_TYPE,GAME\_NAME

Relational Schema :

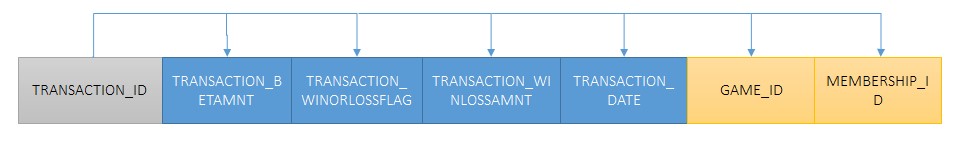
Card\_Game(**Game\_ID,Card\_ID**,Game\_Type,Game\_Name,Card\_Type,Card\_Tier)



Entity: TRANSACTION

Relational Schema :

Transaction(**Transaction\_ID**,Transaction\_BetAmnt,Transaction\_WinorLossFlag,Transaction\_WinorLossAmnt,Game\_ID,Membership\_ID)



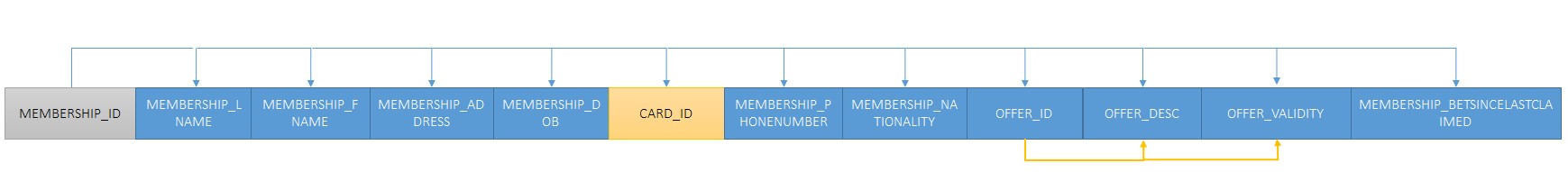
**2nd Normal Form:**

Entity: MEMBERSHIP

Transitive Dependencies Exists : OFFER\_ID -> OFFER\_DESC, OFFER\_VALIDITY

Relational Schema :

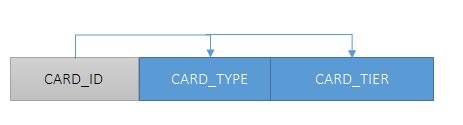
Membership(**Membership\_ID**,Membership\_LName,Membership\_FName,Membership\_Address,Membership\_DOB,Card\_ID,Membership\_HomeNumber,Membership\_Nationality,Offer\_ID,Offer\_Desc,Offer\_Validity,Membership\_BetSinceLastClaimed)



Entity : CARD

Relational Schema :

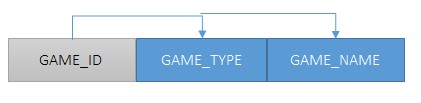
Card(**Card\_ID**,Card\_Type,Card\_Tier)



Entity : GAME

Relational Schema :

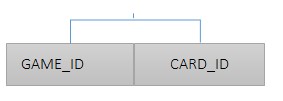
Game(**Game\_ID,**Game\_Type,Game\_Name)



Entity : CARD\_GAME

Relational Schema :

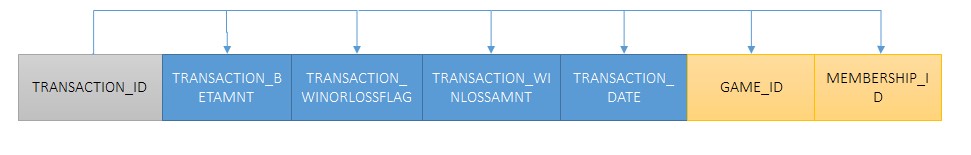
Card\_Game(**Game\_ID,Card\_ID**)



Entity: TRANSACTION

Relational Schema :

Transaction(**Transaction\_ID**,Transaction\_BetAmnt,Transaction\_WinorLossFlag,Transaction\_WinorLossAmnt,Game\_ID,Membership\_ID)

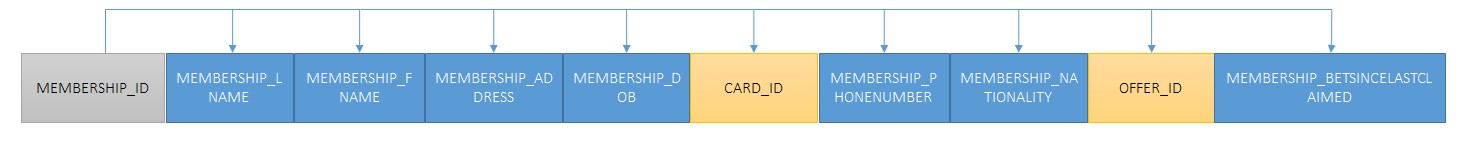


**3rd Normal Form** :

Entity: MEMBERSHIP

Relational Schema :

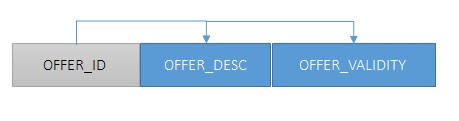
Membership(**Membership\_ID**,Membership\_LName,Membership\_FName,Membership\_Address,Membership\_DOB,Card\_ID,Membership\_HomeNumber,Membership\_Nationality,Offer\_ID,Membership\_BetSinceLastClaimed)



Entity : OFFER

Relational Schema :

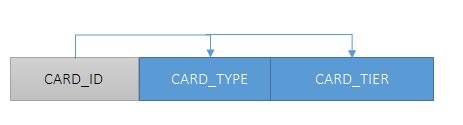
Offer(**Offer\_ID**,Offer\_Desc,Offer\_Validity)



Entity : CARD

Relational Schema :

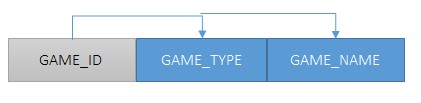
Card(**Card\_ID**,Card\_Type,Card\_Tier)



Entity : GAME

Relational Schema :

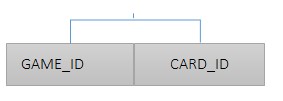
Game(**Game\_ID,**Game\_Type,Game\_Name)



Entity : CARD\_GAME

Relational Schema :

Card\_Game(**Game\_ID,Card\_ID**)



Entity: TRANSACTION

Relational Schema :

Transaction(**Transaction\_ID**,Transaction\_BetAmnt,Transaction\_WinorLossFlag,Transaction\_WinorLossAmnt,Game\_ID,Membership\_ID)

