**0NF**

**accountName (pk)**

**accountTime**

**characterName**

**characterNum**

**characterTeam**

**characterSkillLevel**

**playerEmail**

**playerName**

**itemID**

**itemType**

**itemQuantity**

**errorType**

**errorName**

**errorID**

**errorDescription**

**1NF-0**

**accountName (pk) accountName (fk)**

**accountTime pk characterNum**

**playerEmail characterName**

**playerName characterTeam**

**errorType characterSkillLevel**

**errorName itemID**

**errorID itemType**

**errorDescription itemQuantity**

**1NF1-1**

**accountName (pk) accountName (fk )**

**accountTime Pk characterNum**

**playerEmail characterName**

**playerName characterTeam**

**errorType characterSkillLevel**

**errorName**

**errorID characterNum (fk)**

**errorDescription pk itemID**

**itemType**

**itemQuantity**

**3NF**

**accountName (pk) AccountName (fk )**

**accountTime Pk characterNum**

**playerEmail (fk) characterName**

**characterTeam**

**playerEmail (pk) characterSkillLevel**

**playerName**

**characterNum (fk) itemID (pk)**

**errorID (pk) pk itemID (fk) itemType**

**errorType ItemQuantity**

**errorDescription**

**errorName**

**2NF**

**accountName (pk) accountName (fk )**

**accountTime Pk characterNum**

**playerEmail characterName**

**playerName characterTeam**

**errorType characterSkillLevel**

**errorName**

**errorID characterNum (fk) itemID (pk)**

**errorDescription pk itemID (fk) itemType**

**itemQuantity**