**FUNCTIONAL DEPENDENCIES AND BCNF IDENTIFICATION**

**Customer Table:**

**Functional Dependencies:**

**Customer\_ID → {Name, Device\_Count, Phone\_Number, Email, Date\_of\_Registration}**

**This table is in BCNF since Customer\_ID is a superkey.**

**Customer\_Payment Table:**

**Functional Dependencies:**

**{Customer\_ID, Saved\_Payment\_Method} → {Customer\_ID, Saved\_Payment\_Method}**

**This table is in BCNF.**

**Cart Table:**

**Functional Dependencies:**

**Cart\_ID → {Item\_ID, Restaurant\_ID}**

**This table is in BCNF.**

**Cart\_Items Table:**

**Functional Dependencies:**

**{Cart\_ID, Item\_ID} → {Restaurant\_ID, Quantity}**

**This table is in BCNF.**

**Menu Table:**

**Functional Dependencies:**

**Item\_ID → {Item\_Name, Price, Description, Course, Type}**

**This table is in BCNF.**

**Orders Table:**

**Functional Dependencies:**

**Order\_ID → {Status, Time, Date, Rating, Cust\_ID, Cart\_ID}**

**This table is in BCNF.**

**Restaurants Table:**

**Functional Dependencies:**

**Restaurant\_ID → {Name, Type, Avg\_Price, Ratings, Contact\_No, Sponsored, Email, City, Street, Order\_ID, Availability, PIN}**

**This table is in BCNF.**

**Premium Table:**

**Functional Dependencies:**

**ID → {Start\_Date, End\_Date, Amount, C\_ID}**

**This table is in BCNF.**

**Customer\_Address Table:**

**Functional Dependencies:**

**{Receiver\_Name, Receiver\_Contact\_Number, PIN, City, Street} → {Cu\_ID}**

**This table is in BCNF.**

**Disputes Table:**

**Functional Dependencies:**

**Issue\_ID → {Refund, O\_ID, Date}**

**This table is in BCNF.**

**Invoice Table:**

**Functional Dependencies:**

**Transaction\_ID → {Payment\_Method, Inv\_Date, OID, Prem\_ID, Time}**

**This table is in BCNF.**

**Delivery\_Partner Table:**

**Functional Dependencies:**

**Partner\_ID → {Name, Vehicle, Contact\_Number, Ratings}**

**This table is in BCNF.**

**Restaurant\_menu Table:**

**Functional Dependencies:**

**{Restaurant\_ID, Item\_id}→{Discount}**

**This table is in BCNF.**