

## **Normalization proof**

**customer(customer\_id, first\_name, last\_name, address, password, email, phone\_no)**

customer\_id -> fname

customer\_id -> lname

customer\_id -> password

customer\_id -> email

customer\_id -> phone\_no

customer\_id -> address

Here, Key - customer\_id

BCNF - yes

**ratings(customer\_id, restaurant\_id, rating)**

{customer\_id, restaurant\_id} -> rating

Here, Key - {customer\_id, restaurant\_id}

BCNF - yes

**Restaurant(Restaurant\_id, Restaurant\_address, Restaurant\_name, Restaurant\_password, Restaurant\_PhoneNo)**

restaurant\_id -> Restaurant\_address

restaurant\_id -> Restaurant\_name

restaurant\_id -> Restaurant\_password

restaurant\_id -> Restaurant\_PhoneNo

Here, Key - restaurant\_id

BCNF - yes

**Admin(admin\_id,Admin\_name,Admin\_password)**

admin\_id -> Admin\_name

admin\_id -> Admin\_password

Here, Key - admin\_id

BCNF - yes

**Category(Category\_id,Category\_name)**

Category\_id -> Category\_name

Here, Key - category\_id

BCNF - yes

**Menu\_item(item\_code,Price,item\_name)**

item\_code -> item\_name

item\_code -> Price

Here, Key - item\_code

BCNF - yes

**Order\_detail(Order\_id,Order\_timestamp,Order\_amount,Order\_status)**

Order\_id -> Order\_timestamp

Order\_id -> Order\_amount

Order\_id -> Order\_status

Here, Key - order\_id

BCNF - yes

**order(order\_id,item\_code,quantity)**

{order\_id,item\_code} -> quantity

Here, Key - {order\_id,item\_code}

BCNF – yes

**Payment\_details(payment\_id,payment\_mode,payment\_timestamp)**

payment\_id -> payment\_mode

payment\_id -> payment\_timestamp

Here, Key - payment\_id

BCNF - yes

**Delivery\_details(delivery\_id,delivery\_address,delivery\_status)**

delivery\_id -> delivery\_address

delivery\_id -> delivery\_status

Here, Key - delivery\_id

BCNF - yes