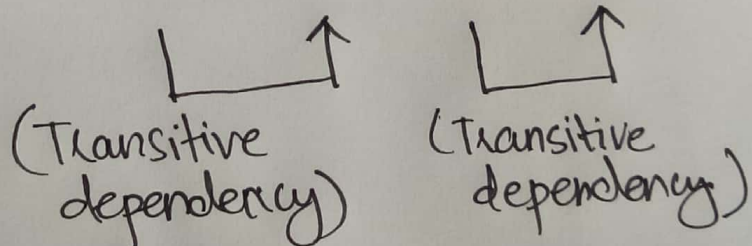
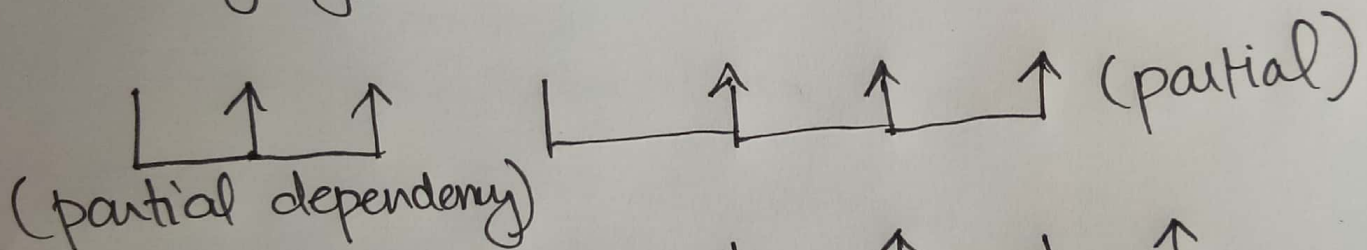
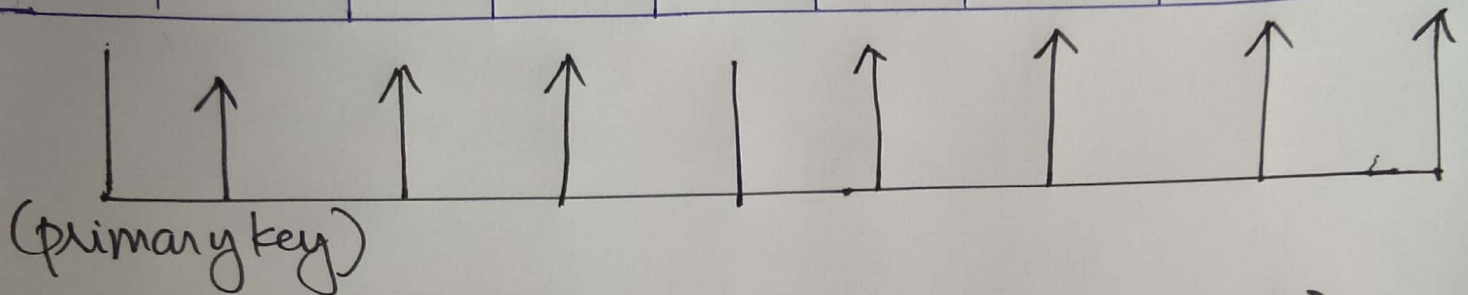


Ans:- Converting the UNF Table into 1NF. Eliminating the repeating elements.

Member Num	Member Name	Member Address	Dinner Num	Dinner Date	Venue Code	Venue Description	Food Code	Food Description
214	Peter Wong	325 Meadow Park	D00001	15-Mar-10	B01	Grand Ball Room	EN3	Stewed Crab
214	Peter Wang	325 Meadow Park	D00001	15-Mar-10	B01	Grand Ball Room	DE8	Chocolate Mousse.
235	Mary Lee	123 Rose Court	D00002	15-Mar-10	B02	Petit Ball Room	EN5	Marinated Steak
235	Mary Lee	123 Rose Court	D00002	15-Mar-10	B02	Petit Ball Room	DE8	Chocolate Mousse
250	Peter Wang	9 Nine Ave	D00003	20-Mar-10	C01	Cafe	S01	Pumpkin Soup
250	Peter Wang	9 Nine Ave	D00003	20-Mar-10	C01	Cafe	EN5	Marinated Steak
250	Peter Wang	9 Nine Ave	D00003	20-Mar-10	C01	Cafe	DE2	Apple Pie
235	Mary Lee	123 Rose Court	D00003	20-Mar-10	C01	Cafe	S01	Pumpkin Soup
235	Mary Lee	123 Rose Court	D00003	20-Mar-10	C01	Cafe	DE2	Marinated Steak
235	Mary Lee	123 Rose Court	D00003	20-Mar-10	C01	Cafe	DE2	Apple Pie
300	Paul Lee	123 Rose Court	D00004	20-Mar-10	E10	Petit Ball Room	SA2	Apple Pie

The following table is now in 1NF.
 Converting into 2NF first we have to find partial dependencies if they exist & then eliminate them.

Member Num	Member Name	Member Address	Dinner Num	Dinner Date	Venue Code	Venue description	Food code	Food description
------------	-------------	----------------	------------	-------------	------------	-------------------	-----------	------------------



→ Since there's a partial dependency exists on Dinner no so we will make a separate table for it

In 1NF (From Maintable)
(Member Num, Member Name, Member Address,
Dinner Num, Dinner date, ~~Venue~~ Code, Venue
description, Food Code, Food description)

In 2NF (From Main table)

(Members num, Dinner Num, Food Code, Food description)

Dinner Num Table

(Dinner Num, Venue Code, Dinner date, Venue
description)

Member Num Table

(Member Num, Member Name, Member Address)

→ Now converting it in 3NF, we will eliminate
the transitive dependencies, Hence 3NF will
be

In 3NF:-

Main Table

(Member Num, Dinner Num, Food code)

→ Member Num Table

(Member Num, Member name, Member Address)

→ Dinner Num Table

(Dinner Num, Dinner date, Venue Code)

→ Food code Table

(Food code, Food Description)

→ Venue Code Table

(Venue code, Venue description)

The table in BCNF will be same because there is no determinants that is not candidate key.