

ASSIGNMENT 10: Implement Normalization

Normalize the below table to 3NF:

Emp ID	Emp Name	Month	Sales	Bank ID	Bank Name
E01	AA	Jan	1000	B01	SBI
		Feb	1200		
		Mar	850		
E02	BB	Jan	2200	B02	UTI
		Feb	2500		
E03	CC	Jan	1700	B01	SBI
		Feb	1800		
		Mar	1850		
		Apr	1725		

SOLUTION:

1) 1NF

Emp ID	Emp Name	Month	Sales	Bank ID	Bank Name
E01	AA	Jan	1000	B01	SBI
E01	AA	Feb	1200	B01	SBI
E01	AA	Mar	850	B01	SBI
E02	BB	Jan	2200	B02	UTI
E02	BB	Feb	2500	B02	UTI
E03	CC	Jan	1700	B01	SBI
E03	CC	Feb	1800	B01	SBI
E03	CC	Mar	1850	B01	SBI
E03	CC	Apr	1725	B01	SBI

2) 2NF

Emp ID	Emp Name	Bank ID	Bank Name
E01	AA	B01	SBI
E02	BB	B02	UTI
E03	CC	B01	SBI

Emp ID	Month	Sales
E01	Jan	1000
E01	Feb	1200
E01	Mar	850
E02	Jan	2200
E02	Feb	2500
E03	Jan	1700
E03	Feb	1800
E03	Mar	1850
E03	Apr	1725

3) 3NF

Emp ID	Emp Name	Bank ID
E01	AA	B01
E02	BB	B02
E03	CC	B01

Bank ID	Bank Name
B01	SBI
B02	UTI

Emp ID	Month ID	Sales ID
E01	M01	S02
E01	M02	S03
E01	M03	S01
E02	M01	S08
E02	M02	S09
E03	M01	S04
E03	M02	S05
E03	M03	S06
E03	M04	S07

Month ID	Month
M01	Jan
M02	Feb
M03	Mar
M04	Apr

Sales ID	Sales
S01	850
S02	1000
S03	1200
S04	1700
S05	1800
S06	1850
S07	1725
S08	2200
S09	2500