

ASSIGNMENT # 02

DATABASE SYSTEM (CS-329)

SUBMITTED BY
MUNIB-UL-HASSAN

ROLL NO #
CS19-037



SUBMITTED TO
SIR ANAD

DEPARTMENT OF COMPUTER SCIENCE
SIR SYED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Question No 01:

1NF:

P.	P.	P.	P.	E.	E.	D.	D.	Hourly
Code	Name	Manager	Budget	No	Name	No	Name	Rate
Pc010	R.S	Ajay	120500	S100	Mohan	D03	Database	21.00
Pc010	R.S	Ajay	120500	S101	Vipal	D02	Testing	16.50
Pc010	R.S	Ajay	120500	S102	Riyaz	D01	IT	22.00
Pc011	Hr	Charu	500500	S103	Pavan	D03	Database	18.50
Pc011	Hr	Charu	500500	S104	Jitendra	D02	Testing	17.00
Pc011	Hr	Charu	500500	S315	Pooja	D01	IT	23.50
Pc012	As	Rajesh	710700	S317	Rahul	D03	Database	21.50
Pc012	As	Rajesh	710700	S218	Avenash	D02	Testing	15.50
Pc012	As	Rajesh	710700	S109	Vikas	D01	IT	20.20

2NF:

P.Code	P.Name	P.Manager	P.Budget
PC010	R.S	Ajay	120500
PC011	HR	Charu	500500
PC012	AS	Rajesh	710700

P.Code	E.No	Hourly Rate
PC010	S100	21.00
PC010	S101	16.50
PC010	S102	22.00
PC011	S103	18.50
PC011	S104	17.00
PC011	S315	23.50
PC012	S317	21.50
PC012	S218	15.50
PC012	S109	20.20

Question No 02:

The Table Is in 1nf.

Now, 2NF:

Unit_Id	Date	Topic	Room	Book	Tutor_Id
U ₁	23-2-3	GMT	629	Deumich	Tut 1
U ₂	18-11-2	GIN	631	Zehnder	Tut 2
U ₅	5-5-3	PHF	632	Dumlers	Tut 3
U ₄	4-7-3	AVD	621	SwissTopo	Tut 4

Unit_Id	Student_Id	Grade
U ₁	St 1	4.7
U ₂	St 1	5.1
U ₁	St 4	4.3
U ₅	St 2	4.9
U ₄	St 2	5.0

Tutor_Id	Tutor Email
Tut 1	Tut 1@Fbb.Ch
Tut 3	Tut 3@Fbb.Ch
Tut 5	Tut 5@Fbb.Ch

Normalized.

E.No	E.Name	D.No	D.Name
S100	Mohan	D03	Database
S101	Vipal	D02	Testing
S102	Riyaz	D01	IT
S103	Pavan	D03	Database
S104	Jitendra	D02	Testing
S315	Pooja	D01	IT
S317	Rahul	D03	Database
S218	Avenash	D02	Testing
S109	Vikas	D01	IT

3NF:

E.No	E.Name	D.No
S100	Mohan	D03
S101	Vipal	D02
S102	Riyaz	D01
S103	Pavan	D03
S104	Jitendra	D02
S315	Pooja	D01
S317	Rahul	D03
S218	Avenash	D02
S109	Vikas	D01

D.No	D.Name
D01	IT
D02	Testing
D03	Database

The Table Is Normalized.

Question No 03:

The Table Is in 1nf.

Now, **2nf:**

Score_Id	Student	Marks	Subject
	Id		Id
1	10	70	1
2	10	75	2
3	11	80	1

Subject_Id	Teacher
1	Java Teacher
2	C++ Teacher

The Table Is Normalized.