Areeb Ahmed

FA19-BSE-022

Sec: B

Course: Database

Sessional # 02

Question of 01

a)

StudentID -> Name

Course ID -> Course Name

Teacher ID > Teacher Name

Teacha ID, Teacha Name -> Semester

of F107, we should have to update rows, in order to maintain integrity. This is a time taking process.

referred to the make scale of

Question:01

Student ID.	Name	course Id	Course Name	Semenster	Teacher Name	Teacher Id
48001 (PK)	Ahmed	CS 100	OS.	FAI6	Dr.Suleman	F167
48001	Ahmed	CS106	e۷	SPIT	Dr. Mohsen	F148
48007	Faizan	00122	oS	FAL6	Di-Suleman	£107
48007	Faizan	CS119	GD	SPIT	DT · Ashray	F203
4800 q	waleed	CS 100	OS	FA16	Dr. sulemn	F107
48009	Walred	CS 104	TOT	SPIT	Dr. Adnam	F567
48024	Imran	CS100	0.5	FA16	Dr. Suleman	F107
48024	Imaan	CS104	IOT	SP16	D7: Adnan	F567

2 WF:

Student Id, course Id. - (Pk)

student Id i's pautially dependent on Name

Student ID -> Name (T)

course ID -> Name (F)

Course ID partial dependent on Course Name

Student ID - Courx Name (F)

Course ID > course Name (T)

Fully functional on primary key (Pk)

Student Id -> Semester (F)

course Id -> sementer (F)

coure ID partial dept on teacher Id

Student Id - Teacher Name (F)

Course Id > Teacher Name (T)

Course Id partially dependent Teacher Id.

Student Id > Teacher Id (P)

course Id > Teacher Id (T)

Student Id, Course Id, Semester Course Id, Course Name, Teacher Name, Teacher Id, student Student Id, raime.

2NF:

Student ID	Name
48001	Ahmed
48007	Fai zan
48009	Waleed
48024	Imran

Student Id	Course Id	Semester
48001	C3/00	FAIS
48001	CS106	SPIT
48007	CS100	FAIG
48007 48009 48009	CS119 CS100 CS104	SP17 FAlf SP17
48024	CS100A	FAIG
480e4	03104	sp16

Course Id	Course Name	Teacher Name	Teacher Id
CS(00	02	Dr. Suleman	F107
cs106	CV	br. Mosin	F145
CS119	GD	Dr. Ashraf	F203
<u>cslo4</u>	TOT	DT. Adnah	F567

3NF:

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in garage a series of the fire		
Teacher Name	Teacher Id		
Dr. Suleman	F107		
Dr. Mohsin	F145		
Dr. Ashraf	F203		
Dr. Adnan	F507		

Question = 02

Select T. Dept as Dept. SUM (Subject Count) As Total Subjects

FROM Teacher T, Subjects S

Where T. TeacherID = S-TeacherID

GROUP By T. Dept.

Question: 03

a) entities:

i) Users

ii) items

iii) Categories

(r) Regrust forms

b) attributes:

is user (Uname, M'd, Uphone, Maddress)

ii) items (Irame Il'd, UId)

iii) Categories (Iid, Category)

(1) Repustforms (Ephone, Rnam, Rid D, Lid)

c) Keys:

i) User

· Primary key (Vid)

ii) Items

· primary key (Lid)

- · Foreign key (Vid)
- iii) Categories:
 - · Foreign key (Ird)
 - · Primary key (Tid+ cookgory)
- ir) Request form:
 - · Primary key (Rid)
 - · Foreign ky (Iid)

