

(1)

Salman KHAN ID# 14974 Main Exam

NAME " Salman Khan  
ID " 14974  
Subject " Data base System  
Department " BS (CS)  
Assignment " Final term  
Date " 30-06-2020

(1) Question No (1)

MSI- "Course - id" and "Course - Name"  
are repeating group; there-  
fore not in 1st NF.

So remove the entire repeating  
group from the relation. Create  
another relation which would  
contain all the attributes  
of the repeating group, plus  
the primary key from the  
original relation and the  
determinant of the repeating  
group will comprise a primary  
key  
original relation

Student - id	Student Name	Student Address	Grade
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New relation :-

Student-id	Course-id	Course Name
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So Now the original relation is at least in 1<sup>st</sup> NF, because not multivalued or repeating group exist.

There is no composite primary key in relation so it is at least in 2<sup>nd</sup> NF.

All the non key attribute are directly dependent on a p.k. So there is no transitive dependency the relation is at least in 3<sup>rd</sup> NF.

(3)

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Q1

Ans First normal form:-

Student Id	Student Name	Student Address	Course Id	Course Name	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	SRE	B
02	waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03	DB	A
03	Saira	Peshawar	SE-04	SRE	B
04	Aiman	Karachi	SE-03	DB	C
05	Daniyal	Lahore	SE-01	AI	A
06	Emaan	Peshawar	SE-01	AI	B

2nd Normal form:-

Student- Detail- table:-

Student Id	Student Name	Student Address
01	Fawad	Karachi
01	Fawad	Karachi
02	waleed	Lahore
03	Saira	Peshawar
03	Saira	Peshawar
04	Aiman	Karachi
05	Daniyal	Lahore
06	Emaan	Peshawar

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Course Detail table:-

Course Id	Course-Name	Grade
SE-01	AI	A
SE-05	SRE	B
SE-02	DIP	C
SE-03	DB	A
SE-04	SRE	B
SE-03	DB	C
SE-01	AI	A
SE-01	AI	B

3rd Normal Form:

Student table:

Student Id	Student Name	Student Address	Course Id
01	Fawad	Karachi	SE-01
01	Fawad	Karachi	SE-05
02	waleed	Lahore	SE-02
03	Saira	Peshawar	SE-03
03	saira	Peshawar	SE-04
04	Aiman	Karachi	SE-03
05	Daniyal	Lahore	SE-01
06	Emaan	peshawar	SE-01

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Course-ID	Course-Name	Grade
S -01	AI	A
SE-05	SGE	B
SE-02	DIP	C
SE-03	DB	A
SE-04	SRE	B
SE-03	DB	C
SE-01	AI	A
SE-01	AI	B

Question No (a)

(1)

Create data base gallery

(2) Create table movies

(

ID integer NOT null primary key;  
Movie - Name Varchar (50) NOT NULL  
Genre Varchar (50),

Year integer max = 2020

Rating integer max = 5

)

(6)

Salman Khan ID#14974 Mam Rishha

Question No (3)

Ans:

Create table Kalam

(

ID int not null primary key,

name varchar (20);

age int,

cgpa float

)

insert into Kalam values (4, 'Ruhab', 19, 2.6,

DELETE FROM Kalam

WHERE CGPA  $\geq$  3

Select \* From Kalam

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Salman bhamra ID # 140274 Mam Rishika.

Q.12 Question (4)

(1)

Ans 1. Select Product - Name, unit - price  
Where SUBSTRING - INDEX (unit - price,  
"Rs, 1) < 50;

2

Ans 2. Select Product - Name from table as  
Product - list - Sorted ORDER  
by Product - NAME;

3

Ans 1-

Category	Count (category)
Junk	4
Not junk	2

4

Ans 1

Query :-

Select ordered Details &  
- id, Canteen Table Product - Name  
order Detail . unit - price, or  
Detail Quantity, From ordered  
INNER join Canteen - Table on

(8)

Subman: Lalina ID# 14974 Mam Rincin

Ordered Details - Product -  
ID - Canteen - Table Product  
- ID.

output:

Order - Id	Product - Name	Unit - Price	Quantity
01	Lipton tea bags	160 RS	1
01	ajars Milk	350 RS	1
02	Dairy milk chocolate	80 RS	2
02	kurkure	30 RS	2
02	Chilli milli jelly	5 RS	2