

# **Final Exam Summer**

Course Name: Introduction To Database Systems

## **Submitted By:**

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## Submitted To:

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### Answer:

Q1) dosuce :	
1NF :-	
Z - Each table cell Should contain a single Value	0
The student ID and course ID together makes each record unique in the table. 01 Found karachi SE 01 AT A 02 maked tabore SE-05 DIP C	
03 Soira Peshawar SE-03 DB A 03 Soira Peshawar SE-04 SRE B 04 Aiman Karachi SE-03 DB C 05 Duriyel Jahore SE-01 A1 A 06 Emoren Peshawar SE-01 A1 B	
2NF: 2 A Relation that is first normal form and every non-polimony key is attribute a July Junctionall dependent on the polimony key then the reduction is second noomal that	
In student table Studend-10 is unique and it is primary key for the table. The student Nome, Student address are fully functionally dependent on the primary key.	
- Student address) - Course ( (ouse - 1 DEPK)EFK], course-Name) - Student - course ( Studen-1d, Course-Name)	(0)

## Q1

rd	fosiegin key to the student-id is the pointing key
he	course table, course 10 is the pointing key and
ale	in key to the student-course table.
	-
SN	F1-
5	If there is no topositive dependency for
1	non-poince attailates as well by it is
	in second form.
	12 A-7B, B-7C are two FD.
	then A-X is called to anything decontency.
	These tables are in SF, because

## Q2

#### Part (1);

**CREATE TABLE Students (** 

ID int NOT NULL PRIMARY KEY,

Student\_Name varchar NOT NULL,

DOB DATE,

Age int ,

CGPA float,

check (Year between 1 and 30),

);

#### Part (2);

INSERT INTO Students (ID, Student\_Name, DOB, Age, CGPA)

(13033, 'Muhammad Safeer, '08-03-1996', 24, 2.2);

**INSERT INTO Students** 

(ID, Student\_Name ,DOB, Age, CGPA) VALUES (12280, 'Yahya Riaz, '06-03-1997', 23, 2.7 );

Part (3);

Age is the derived attribute of the given attributes and it can be derived from DOB attribute.

Age int AS (year(CURRENT\_TIMESTAMP) - year(DOB)

### Q3

### Part (1);

Select Product\_name, Product\_id from Canteen\_Table where Cast (rtrim (Unit\_Price,'Rs') as int) < 50;

Since we have unit price like 160 Rs, we need to get the price separately to nd the products which are below the unit price 50 rs. We used rtrim(Unit\_Price, 'Rs') which we get as the price value.

### Part (2);

Select Product\_Name as Product\_List\_Sorted from Canteen\_Table order by Product\_Name asc;

## Part (3);

DELETE FROM Order\_Details WHERE Quantity<1;

## Part (4);

Lets nd the Product name Mfg Date Exp Date and sold quantity for the products which are sold.

select Product\_Name, Mfg\_Date, Exp\_Date , Quantity from Canteen\_Table C inner join
Order\_Details O on O.Product\_ID = C.Product\_ID;