NAME: MASOOD SAID

ID: 13723

BS (SE) FINAL TERM

PAPER: DATABASE SYSTEMS

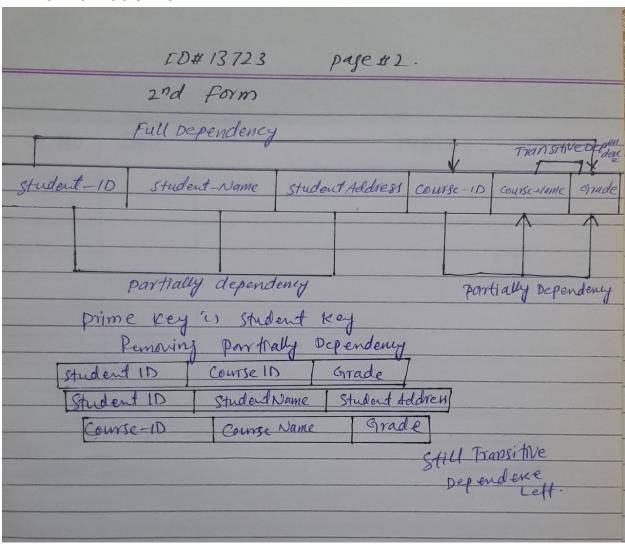
Instructor: Rimsha Khan

Q1: Perform Normalization upto 3rd Normal Form

ANS: First normalization form \

ID#13723 page#1						
Student ID	Student Name	- Student Add	Course-ID	course Name	Grade	
01	Fawad	Karachi	SE-01	AI	A	
0/	Pawad	<i>Icaraehi</i>	86-05	SOE	B	
02	waleed	Cahore	SE-02	DIP	C	
03	Saira	Pegnawar	SE -03	DB	A	
03	Saira	Peshawar	SE-04	SRE	B	
04	Aiman	Icaraeli	SE-03	DB	C	
05	Daniful	Cahore	SE-01	AR	A	
06	E maan	Peshaware	SE-01	AL	B	

2nd Normalization form



3rd Normalization form

ID#13	123	page#3				
3rd Normalization Form.						
3 4 100,111	and gran					
Student 1D	Course ID	Grade				
	Student Name	student Address				
Student 1D	Jugen Pourie					
Course ID	Course Name	Grade				
		<u></u>				
	Transitive	Dependency				
Student ID	course If					
Courscip	Course Name	Grade				
The state of the s						

Atfer Removed Transitive Dependency Course_ID, Course name, Grade

Q2: Write SQL queries for the following DDL Statements

1. Write a query to create a table by the name Students which should have

the following columns and restrictions: (Marks 10)

Column Name: ID Type: integer

Column Name: Student_Name Type: varchar

Column Name: DOB Type: DATE

Column Name: Age Type: Integer

Column Name: CGPA Type: float

Restrictions: ID should be the primary key. Student_Name should also be

NOT NULL. Maximum value of age should be 30 years.

ANS:

```
create table "Students"(
ID INT PK_ID Primary Key NOT Null,
Student_Name INT (100) NOT Null,
DOB DATE,
Age Integer
Select MAX(Age)
From[year]
Where Year (30)
CGPA Float
);
```

2. Write 2 SQL DML Queries to insert your data and your friend's data in this Table.

ANS:

insert into (Student_id, Student_name, Age,CGPA)

values (13723, 'Masood SAid, 21, 3.8)

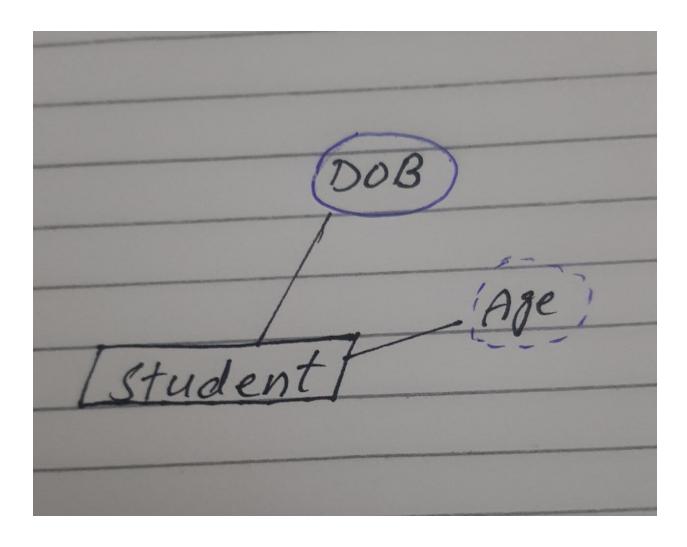
insert into (Student_id,Student_name,Age,CGPA)

values (16660, 'Arman Khan', 22, 3.5)

3. Which of the given attributes is a derived attribute and from which attribute it can be derived?

ANS: Derived Attributes-

Derived attributes are those attributes which can be derived from other attribute(s).



Here, the attribute "Age" is a derived attribute as it can be derived from the attribute "DOB"

Q3: Consider you have the following 2 tables.

1. Write SQL Query for finding/displaying product names and ids of products whose unit price is less than 50 Rs.

ANS:

Canteen table:

SELECT Product_name, Product_ID, UNIT_price

FROM Canteen_Table

WHERE _Unit_Price < 50

For Order:

SELECT ORDER_ID, Product_ID, UNIT PRICE

FROM Canteen_Table

WHERE _Unit_Price < 50

2. Write SQL Query for displaying sorted names of product names with Alias name as Product_List_Sorted.
ANS:
In Ascending: By default, the sort is performed in ascending order. Therefore,
there is no need to specify the ASC keyword.
SELECT ProductName AS [Product_Name]
FROM Canteen table;
3. Delete data from Order_Details whose quantity is less than 1.
ANS:
delete from Order_Details where quantity is<1,

4. Write SQL INNER JOIN query and its output on the given two tables.

ANS:

SELECT Canteen_Table.Product_ID, Canteen_Table.Product_Name,

Order, order_id, Order, order Quantity,

order.order_ID,order.order_quantity

FROM Canteen_Table

INNER JOIN Order_Details

ON Canteen_Table. order_id =order.order_id;

THANK YOU