

Name : Zamin Shah

ID : 15277

Section : " B "

Dept : BS (S.E)

Assignment : Database

Sub: To : Rimshah Khan

Date 30/06/2020

Question # 01.

Perform Normalization upto 3rd Normal Form on the following table

Student - id	Student Name	Student Address	Course id	Course name	Grade
01	Fawad	Karachi	SE-01 SE-05	AL SRE	A B
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03 SE-04	DB SRE	A B
04	Aiman	Karachi	SE-03	DB	C
05	Daniyal	Lahore	SE-01	AL	A
06	Emaan	Peshawar	SE-01	AL	B

ANSWER # 01.

Frist Normal Form :-

Student ID	Student Name	Student Address	Course ID	Course Name	Grade
01	Fawad	Karachi	SE-01	AL	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	AL	A
06	Emaan	Peshawar	SE-01	AL	B

2nd Normalization Form:-

Student			COURSE		
Student ID	Student Name	Student Address	COURSE ID	COURSE NAME	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	SQE	B
02	Walleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03	DB	A
03	Saira	Peshawar	SE-01	AI	B
04	Ahmed	Karachi	SE-04	SRE	B
05	Daniyal	Lahore	SE-03	DB	C
06	Emran	Peshawar	SE-01	AI	A

→ Now 3rd Form actually
 No Transitive Dependencies
 But Here is Dependencies
 is occur.

Course ID and Course Name

Grade Transitive Dependences.

Student-ID	Course ID	Grade
01	SE-01	A
01	SE-05	B
02	SE-02	C
03	SE-03	A
03	SE-04	B
04	SE-03	C
05	SE-01	A
06	SE-01	B

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Question # 02

Write SQL queries for the following DDL statements?

PART # 01 : ANSWER:

Create a database by the name of Gallery:

ANSWER: part 01:-

Create database Gallery

Gallery → folder which have some data → in table

St-ID	St-Name	Age	Grade	%age
15277	Zaminshah	19	A	92

Part # 02 : Write a query to create a table by the name movies which should have the following columns and restrictions

ANSWER part # 02 :-

Create table :-

(ID int Primary key
Movie name varchar (26)
Genre int ;
Rating)

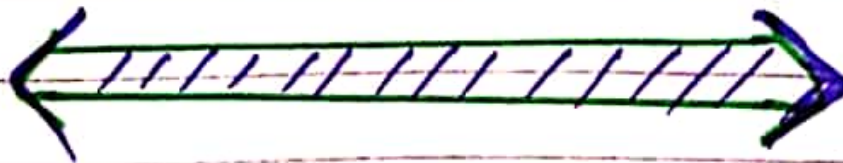
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Create Table

ID integer	Not Null
Movie name	Not Null
Genre varchar (26)	Not Null
Year	2020
Rating	6



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Question # 03

If you have the following table.

Student ID	Student Name	Age	CGPA

Part # 01 :

Write 2 SQL DML queries to insert your data and your friends data in this table.

Answer # 3 : Part # 01 :-

→ insert data in the table which you want to insert.

→ comma separated list of columns in the table surrounded by parenthesis -

→ then gives values.

→ insert table value.

insert into friends.

(ID, Name, age, CGPA)

value (1, Zamin Shah 19, 3.68)

value (2, Ilyas 20, 3.50)

⇒ Now the table is After inserting the value.

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Student ID	Student Name	Age	CGPA
01	Zamir Shah	19	3.68
02	Iyas	20	3.50

// ===== //

Part # 02:

Write SQL DML Query to delete all students record whose CGPA is greater 3?

Part # 2: Answer :-

consider the table

Student ID	Student Name	Age	CGPA
15277	Zamir Shah	19	3.68
15013	Iyas	20	3.50
16015	Zeeshan	18	2.89

iii This table we required to delete Data (value) which CGPA greater than 3. CGPA.

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Question # 04.

Consider you have the following table

Canteen-table.

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ANSWER # 04

Part # 01 : Write SQL query for finding / displaying product names and ids of products whose unit price is less than 50 Rs.

ANSWER : Part # 01.

Select product names, product ID from canteen table.

Where product price < 50 Rs/

Ordered by product-ID, product name.

Product ID	Product name,	Unit price
03	Kurkure	30Rs/
04	Shezane juice	30Rs/
05	Chilli milli jelly	5Rs

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Part # 02 :-

Write SQL query for displaying sorted names of product names with aliases name as product-list-sorted.

Part 2: Answer # 04.

Product ID	Product Name	Category	Mfg date	Exp date	Price
05	chilli milk jelly	Junk	3 Jun 2018	3 June 2021	5 Rs
03	Kurkure	Junk	2019	2019/2021	30 Rs
04	Shezan juice	Junk	3 Aug 2019	3 Aug 2020	30 Rs
01	Dairy milk chocolate	Junk	2 Aug 2019	2 Aug 2020	80 Rs
02	Lipton tea bag	Not Junk	2 June 2019	2 June 2020	160 Rs
06	Olpees milk	Not Junk	3 Apr 2018	3 Apr 2020	350 Rs

Part # 03 :- Write output of the following query.

- select category, count (category)
- From canteen-table,
- Group By category.
- Having count (category) > 1;

Part # 03 Answer # 04 :-

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selected count category.

Prod-ID	Prod name.	category	price
01	Dairy milk	Junk	80/s
03	Kurkure	Junk	30/RS
04	Shegan juice	Junk	30RS/
05	chilli-milli Jelly	Junk	5RS/

→ Group By category: -

order ID	Product ID	quantity	price
02	01	2	80 RS/
02	03	2	30 RS/
02	05	2	5 RS/

Having count category > 1: -

order ID	Prod-ID	Name	quantity	Price
02	01	Dairy milk	2	80RS/
02	03	Kurkure	2	30RS/
02	05	chilli-milli	2	5RS/

Part#4 :: write SQL innee

Join Query and its output
on the given two tables.

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Part # 4 : Ans # 04.

Cateen code	Cateen name	Cateen	Cost	Phone
A007	Khalid	Peshawar	0.15	092338
A003	Ali	Islamabad	0.13	091323
A008	Ayesha	Karachi	0.12	0913132
A011	Zubair	Mardan	0.15	0917145
A010	Adnan	Lahore	0.14	0914566
A012	Ali Shah	Manshera	0.12	0914263
A005	Awas	Malacanal	0.13	0922111

Thank you Mam