

NAME # AWAIS MALIK

ID # 14741

DEPARTMENT # SE

SECTION B

PAPER # DATA BASE

①

Q1 Perform Normalization upto 3rd normal form on the following table -

Std-ID	Std-Name	Std Address	Course ID	Course name	Grade
01	Fawad	Karachi	SE-01	AI	A
			SE-05	S/E	B
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03	OB	A
			SE-04	SRE	B
04	Aiman	Karachi	SE-03	OB	C
05	Daniyal	Lahore	SE-01	AI	A
06	Emaan	Peshawar	SE-01	AI	B

1NF:

Std-ID	Std Name	Std Address	Course ID	Course name	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	S/E	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

(2)

## 2nd form of normalization

Student			Course		
Std ID	Std-Name	Std-Add	Course ID	Course Name	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	S9e	B
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-3	DB	A
04	Alman	Karachi	SE-04	SRE	B
05	Daniyal	Lahore	SE-03	DB	C
06	Emran	Peshawar	SE-01	AI	A
03	Saira	Peshawar	SE-01	AI	B

## 3NF 3rd form of normalization.

### GRADE

Std 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 # 2,

Part :- 1

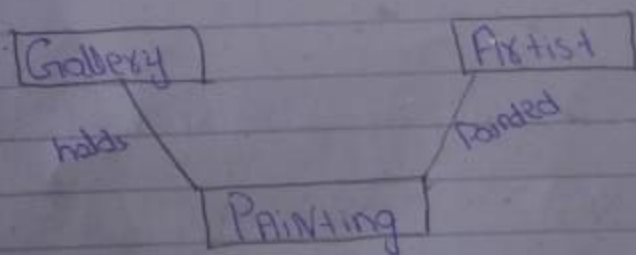
create a database by name gallery.

Answer :-

GALLERY (gallery name, gallery address)

PAINTING (Title, artist name, cost, gallery name)

ARTIST (artist name, initials, nationality)



SQL Commands :-

Create Table gallery

(gallery-name CHAR(15) Not null

gallery-addr CHAR(20) Not null  
nationality CHAR(10) -

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Question # 2,

Part # 2,

Answer :-

Create TABLE table-name (  
Column 1 data type  
Column 2 data type

Column N data type,

Primary KEY (one or more  
Columns)

);

SQL Create table Customers (

ID	Int
Movie-Name	Varchar
Genre	Varchar
YEAR	int
Rating	int

PRIMARY key (ID)

);

④

⑤

Field	Type	Null	key
ID	int	No	Primary
Movie-name	Varchar	No	
Genre	Varchar	No	
Year	int	No	
Rating	int	No	



(6)

### Question #3

Part 1:-

Answer:-

insert data in your table which you want to convert

⇒ Comma, separated list of columns in the table surrounded by parenthesis

⇒ insert value to table:-

insert into friends

(ID, Name, age, CGPA)

Value (1, Awas, 18, 3.8)

Value (2, Taseer, 19, 3.9)

⇒ Now the table after inserting is

Student ID	Std Name	Age	CGPA
1	Awas	18	3.8
2	Taseer	19	3.9

Q3

⑦

PART 2

Answer

my sql > Delete from Student

-> Where CGPA > 3

my sql > Select \* from Student





Question # 4  
Answers

Part 1

Canteen table :-

Select product name, pro Id from  
Canteen table -  
Where product price is < 50rs  
order by product name and  
ID

Order detail :-

Select product ID, unit price  
from ordered detail where unit  
price = select Min (unit price)  
from ordered detail

(9)

## Part 2 :-

Pro-ID	Product name	Category	Mfgdate	Expdate	Price
05	Chilly milly Jelly	Junk	2 Jan 2017	1 Jan 2021	5 Rs
03	Kuskuse	Junk	2 feb 2016	1 Jan 2021	30 Rs
04	Steezon Juice	Junk	2 march 2017	2 feb 2021	30 Rs
01	Dairy milk Chocolate	Junk	2 Aug 2017	3 Mar 2022	80 Rs
02	Lipton tea bags	Not Junk	3 sep 2019	4 dec 2022	160 Rs
06	olper milk	not Junk	4 dec 2018	7 Nov 2023	3500