

NAME = SHAYAN , ID = 14487  
Course = Database Degree = BS(SE)A

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Q1

Ans:- 1st Normalization

Student ID	Student Name	Student address	Course ID	Course Name	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	SOE	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	Danial	Lahore	SE-01	AI	A
06	Emaan	Peshawar	SE-01	AI	B

→ In the first normalization form, we make the table, that in each column have one value, if there is two values in one column, then separate it.

→ Student ID is the Primary key in this table.

P.T.O

14487

SHAYAN

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Q4

ANS:-

(1) ~~SELECT~~ SELECT Product-Id, Product-Name  
WHERE ~~where~~ FROM canteen-table  
WHERE unit-Price < 50,  
ORDER BY unit-Price DESC Product  
Id,  
Product-Name;

(2) SELECT Product-Name AS Product List  
Sorted FROM canteen-table GROUP  
BY ~~BY~~ unit-Price, WHERE ORDER BY  
unit-Price DESC;

(3) Output of the following query.

Category	MY Count
Junk	04
Not Junk	02

# 3rd Normalization

Student table		
Student ID	Student Name	Student Address

COURSE	
Course ID	Course Name

GRADE Table			
Grade ID	<del>Course</del> <sup>Student</sup> ID	Course ID	Grade
1	01		
2	01		
3	02		
4	03		
5	03		
6	04		
7	05		

EXAM					
Exam Name			Total marks		
M	S	F	30	20	50

(7)

#### (4) INNER JOIN SQL QUERY.

```
SELECT canteen_table.Product-ID,  
Product_Name Unit_Price FROM  
canteen_table INNER JOIN  
ORDER_Details ON canteen_table.  
Product-ID = Order_Details.Product-ID.
```

Output:-

Product.ID	Product-Name	Order-ID	Unit Price	Quantity
02	Lipton Tea bags	01	160Rs	1
06	Olders Milk	01	350 Rs	1
01	Dairy Milk chocolate	02	80 Rs	2
03	kurkure	02	30 Rs	2
05	Chilli Milli jelly	02	5 Rs	2

END

SHAYAN 14487

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Q23

ANS

Part 1

1st Query

Insert into STD-Data  
values (14487, Shayan, ~~22~~<sup>21</sup>, 3.2)

2nd Query

Insert into STD-Data values  
(14488, Waseem, 22, 3.1)

After inserting the data into the  
table we get

Student ID	Student Name	Age	CGPA
14487	Shayan	21	3.2
14488	Waseem	22	3.1

Part 2

ANS:-

Delete from STD-Data Where CGPA > 3

Select \* from STD-Data.

October 2019							November 2019							December 2019						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21	10	11	12	13	14	15	16
18	19	20	21	22	23	24	22	23	24	25	26	27	28	17	18	19	20	21	22	23
25	26	27	28	29	30	31	29	30						24	25	26	27	28	29	30
							27	28	29	30	31									

Q2:-

(1) Create a database by a name Gallery.

ANS:-

Create database Gallery.

(2) Write a query - - - restrictions:

{ Create table movie,

Id integer not null,

Movie\_name varchar(25) not null,

Genre varchar(20),

Year int(2020),

Rating int(5),

Primary key (Id),  
};

## 2nd Normalization

Student table		
Student ID	Student Name	Student address
01	Fawad	Karachi
02	waleed	Lahore
03	Saida	Pesh
04	Aiman	Karachi
05	Daniyal	Lahore
06	Emran	Pesh

Course table	
Courses ID	Course Name
SE-01	AI
SE-02	DIP
SE-03	DB
SE-04	SRE
SE-05	SQE

GRADE			
Grade ID	Student ID	Course ID	Grade
1	01	SE-01	A
2	01	SE-05	B
3	02	SE-02	C
4	03	SE-03	A
5	03	SE-04	B
6	04	SE-03	C
7	05	SE-01	A
8	06	SE-01	B

→ In the 2nd normalization form make separate table for each subject so there are three subjects Student, Course, and Grade.