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Section: B

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Q1:-

Ans:- NF 1:- Every column has alternative value (single)

Student T.d	Student name	Student address	Course T.d	Course name	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	SOE	B
02	Wahed	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

NF 2:- There must no partial dependencies
i.e. no non-prime attributes depend on part of candidate key.

Student T.D	Student name	Student Address	Course T.d	Course name	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	SOE	B
02	Wahed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03	DB	A
04	Aiman	Karachi	SE-04	SRE	B
05	Daniyal	Lahore	SE-03	DB	C
06	Emaan	Peshawar	SE-01	AI	A
03	Saira	Peshawar	SE-01	AI	B

(2)

NF3:- There must no transitive dependencies i.e. $a \rightarrow b$, $b \rightarrow c$ and $c \rightarrow a$ is non-prime
Grade

Student I.D	Course I.D	Grade
01	SE-01	A
01	SE-05	B
02	SF-02	C
03	SF-03	A
03	SE-04	B
04	SE-03	C
05	SE-01	A
06	SE-01	B

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Q2 - Write SQL queries for following DDL statements

ANS :- 1) Create database Gallery;

2) Create table movies (ID int primary not null, movie-name varchar(50) not null, genre ~~2~~ varchar(25), year int check(year <= 2020, rating int check(rating <= 5));

ID int	Not null
Movie name	Not null
Genre varchar (15)	Not null
year	(2020)
Rating	5

Q3:- If you have following table

Student I.D	Student name	Age	CGPA.

Part 1:- Write 2 SQL DML Queries to insert your data and your friend's data in table.

Ans:- Insert your desire data -

- > Comma, Separated list of coloumns, in the table surrounded by paranthesis
- > then give value.

=> Insert value to ~~CGPA~~ table

=> Insert friend's details.

(ID, Name, age, CGPA)

Value 1 (1, Zain, 22, 3.34)

Value 2 (2, ihtesham, 23, 3.39)

Table after insertion

Student ID	Student name	Age	CGPA
1	Zain	22	3.34
2	Ihtesham	23	3.39

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Q3 Part 2 :-

Ans :- Delete all records whose CGPA greater than

3 :

Consider the table

Student ID	Student name	Age	CGPA
15587	Ihtesham	23	3.39
14713	Zain	22	3.34
12580	Ihsan	21	2.9
Ihsan			

greater

Now we will delete whose CGPA is ~~less~~ than 3.

Delete friends whose $(CGPA > 3)$;

Student ID	Student name	Age	CGPA
15587	Ihtesham	23	3.39
14713	Zain	22	3.34
12580	Ihsan	21	2.9

(X)

(6)

Q4:-

Product ID	Product name	Category	Mfg	Exp	Unit price
01	Dairy milk chocolate	Junk	2 Aug, 2019	2 Aug, 2020	80 Rs.
02	Lipton. tea bags	Not Junk	2 Jan, 2019	2 Jan, 2020	160 Rs.
03	Kurkure	Junk	2 April, 2020	2 April, 2021	30 Rs.
04	Shezan Juice	Junk	3 Aug, 2019	3 Aug, 2020	20 Rs.
05	Chilli Milli Jelly	Junk	3 Jan, 2018	3 Jan, 2019	5 Rs.
06	Olders Milk	Not Junk	3 April, 2018	3 April, 2020	350 Rs.

ORDER Details

Order ID	Product id	Unit Price	Quantity
01	02	160 Rs	1
01	06	350 Rs	1
02	01	80 Rs	2
02	03	30 Rs	2
02	05	5 Rs	2

Q(1)

Ans:- Select product id, Product name from canteen table when unit price < 50.

Q(2)

Ans:- Select product names as product list sorted order by product name ASC.

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Q4 (3):-

Ans:-

Junk	4
Not Junk	2

Q4 (4)

Ans:- Select order I.D, Product Name (Canteen table Product ID from Canteen table inner Join order details using (Product ID);

Output order I.D	Product name	Product I.D
01	Lipton tea bags	02
01	Older Milk	06
02	Dairy Milk chocolate	01
02	Kurkure	03
02	Chilli Milli Jelly	05