

Name: Sultana Reza

Roll no: BCSF794504

Q1a)

(Female student times Male student) where  
Marks female student > Marks male student

Main Student				Small Student		
Id A	Marks	Gender	Id B	Marks	Gender	
1	45	F	10	20	M	
1	45	F	11	22	M	
2	55	F	10	20	M	
2	55	F	11	22	M	
3	60	F	10	20	M	
3	60	F	11	22	M	
3	60	F	12	59	M	

Q2a) (Student times Employee) where NameA = NameB  
 OR  $\text{Student} \cdot \text{Name} = \text{Employee} \cdot \text{Name}$

Rollno	NAME	Age	phone	Emp No	name	age	phone
1	Ali	18	111111	1	Ali	18	111111
4	Ayesha	19	44444	4	Ayesha	19	44444



c)

Student UNION Employee  
STUDENT MINUS EMPLOYEE

d)

STUDENT Sports DIVIDED BY ALL Sports

c)

Roll-NO  
2

Q3)

a)

Relation - 1:

Name of relation: Student

Cardinality: 3

tuples: 3

degree: 4

Relation - 2:

Name: Course

Cardinality: 3

tuples: 3

degree: 3



b)

ID	First Name	Last Name	Semester	ID	Course	C.H
1	Ali	Usman	2	1	ITC	2
1	Ali	Usman	2	2	PF	4
1	Ali	Usman	2	3	ODP	5
2	Ahmed	Rhan	4	1	ITC	2
2	Ahmed	Rhan	4	2	PF	4
2	Ahmed	Rhan	4	3	ODP	5
3	Arif	Faisal	1	1	ITC	2
3	Arif	Faisal	1	2	PF	4
3	Arif	Faisal	1	3	ODP	5

Q4)

Student RENAME RollNo AS Sno and  
Name AS SName

Q5)

Name Age Gender Id Course

Basit 14 M 1 DS

Basit 14 M 2 DBMS

Emp	15	F	1	DS
123	15	F	2	DBMS
123	20	M	1	DS
123	20	M	2	DBMS

Q6)

Name	id	Dept name	manager
A	120	IT	A
C	110	Sale	Y
D	111	IT	A