**AMERICAN
INTERNATIONAL
UNIVERSITY-
BANGLADESH**

where leaders are created

Introduction to Database

Group Project

On

School management system

Submitted to.....	Submitted by …..	
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Project Scenario

School management system:

Officers manage students and teachers. Officers have unique id, name phone and address. Students go to school. Students have unique student id, name, address and phone number. Teachers teach student. Teachers have unique teacher's id, name, email, address and phone. Teachers take classes. Classes have unique room number and date.

ER Diagram

Normalization

Officer

OID	NAME	ADDRESS	PHONE
1	Abdur , rohman	Rampura	01712345678
2	Rohim , miyah	Motijheel	01723456789
3	Borkot , shah	Badda	01734567891
4	Rohmot , ali	Kuril	01745678901
5	Obaidur , islam	Uttora	01756789012

Teacher

TID	NAME	SAL	EMAIL	ADDRESS	PHONE
100001	Munni , shaha	5000	munni@gmail	Dhanmondi	01767890123
100002	Abdul , alom	4500	alom@gmail	Gulshan	01778901234
100003	Rowshan , ara	4000	ara@gmail	New market	01789012345
100004	Nazrul , islam	3500	isalm@gmail	Farm gate	01790123456
100005	Nipa , ahmed	3000	nipa@gmail	Airport	01710012345

Student

SID	NAME	GPA	DOB	AGE	ADDRESS
01	Emon , rohman	4.94	26-09-12	6	Mohakhali
02	Priam , foyzur	3.15	20-10-09	9	Mohammedrpur
03	Shaiful , alom	2.5	15-5-10	8	Bonani
04	Joshim , haque	4.5	18-6-13	5	Nikunja
05	Mina , akter	3.5	6-2-14	4	Komlapur

Class

ROOM_ID	C_DATE
1001	8-9-18
1002	9-5-18
1003	10-4-18
2001	20-6-18
2002	15-2-18

Normalization: 1NF

Officer

OID	F_NAME	L_NAME	ADDRESS	PHONE
1	Abdur	Rohman	Rampura	01712345678
2	Rohim	Miyah	Motijheel	01723456789
3	Borkot	Shah	Badda	01734567891
4	Rohmot	Ali	Kuril	01745678901
5	Obaidur	Islam	Uttora	01756789012

Teacher

TID	F_NAME	L_NAME	SAL	EMAIL	ADDRESS	PHONE
100001	Munni	Shaha	5000	munni@gmail	Dhanmondi	01767890123
100002	Abdul	Alom	4500	alom@gmail	Gulshan	01778901234
100003	Rowshan	Ara	4000	ara@gmail	New market	01789012345
100004	Nazrul	Islam	3500	isalm@gmail	Farm gate	01790123456
100005	Nipa	Ahmed	3000	nipa@gmail	Airport	01710012345

Student

SID	F_NAME	L_NAME	GPA	DOB	AGE	ADDRESS
01	Emon	Rohman	4.94	26-09-12	6	Mohakhali
02	Foyzur	Priam	3.15	20-10-09	9	Mohammedrpur
03	Shaiful	Alom	2.5	15-5-10	8	Bonani
04	Joshim	Haque	4.5	18-6-13	5	Nikunja
05	Mina	Akter	3.5	6-2-14	4	Komlapur

Class

ROOM_ID	C_DATE
1001	8-9-18
1002	9-5-18
1003	10-4-18
2001	20-6-18
2002	15-2-18

Normalization: 2NF & 3NF

Officer

OID	F_NAME	L_NAME	ADDRESS	PHONE	TID	SID
1	Abdur	Rohman	Rampura	01712345678	100001	01
2	Rohim	Miyah	Motijheel	01723456789	100002	02
3	Borkot	Shah	Badda	01734567891	100003	03
4	Rohmot	Ali	Kuril	01745678901	100004	04
5	Obaidur	Islam	Uttora	01756789012	100005	05

Teacher

TID	F_NAME	L_NAME	SAL	EMAIL	ADDRESS	PHONE	SID
100001	Munni	Shaha	5000	munni@gmail	Dhanmondi	01767890123	O1
100002	Abdul	Alom	4500	alom@gmail	Gulshan	01778901234	O2
100003	Rowshan	Ara	3000	ara@gmail	New market	01789012345	O3
100004	Nazrul	Islam	3500	isalm@gmail	Farm gate	01790123456	O4
100005	Nipa	Ahmed	3000	nipa@gmail	Airport	01710012345	O5

Student

SID	F_NAME	L_NAME	GPA	DOB	AGE	ADDRESS	ROOM_ID
01	Emon	Rohman	4.94	26-09-12	6	Mohakhali	1001
02	Foyzur	Priam	3.15	20-10-09	9	Mohammedrpur	1002
03	Shaiful	Alom	2.5	15-5-10	8	Bonani	1003
04	Joshim	Haque	4.5	18-6-13	5	Nikunja	2001
05	Mina	Akter	3.5	6-2-14	4	Komlapur	2002

Class

ROOM_ID	C_DATE
1001	8-9-18
1002	9-5-18
1003	10-4-18
2001	20-6-18
2002	15-2-18

Class_info

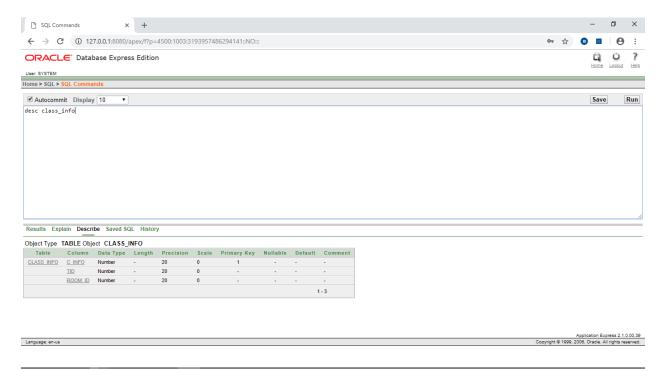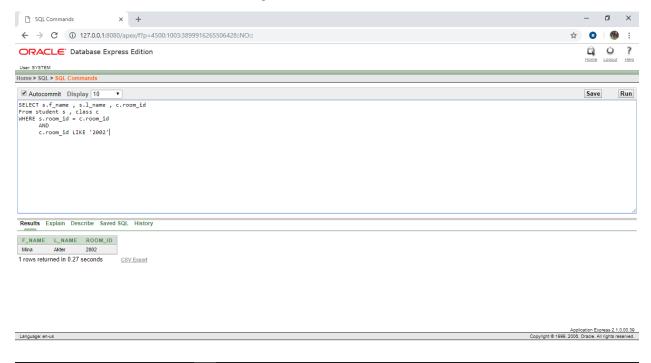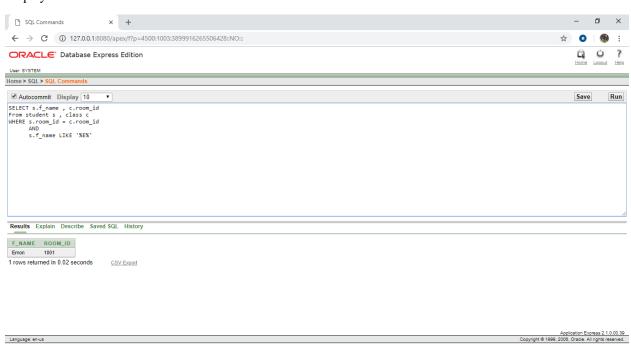| C_Info	TID	ROOM
96	100001	1001
97	100002	1002
98	100005	1003
99	100004	2001
100	100005	2002

Table creation

Table creation

Table creation

Joining

Find the student first name and last name along with room id of that student how read in room no 2002
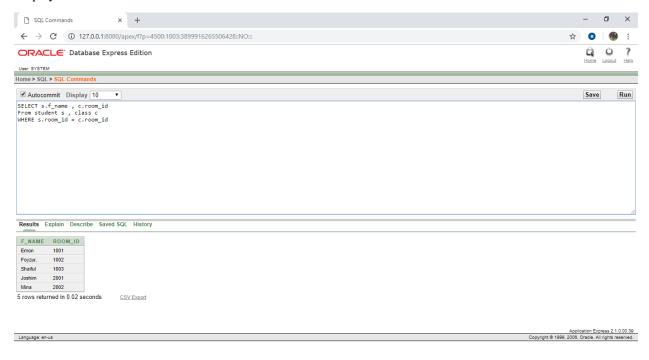

Display the first name and room id of that student how have "E" in his/her name
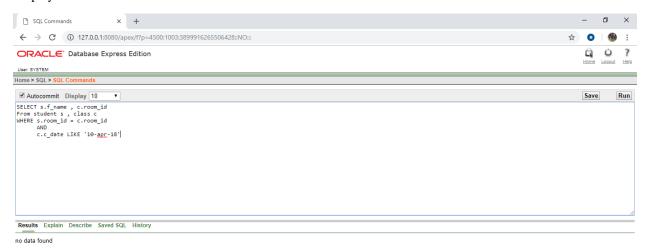
Joining

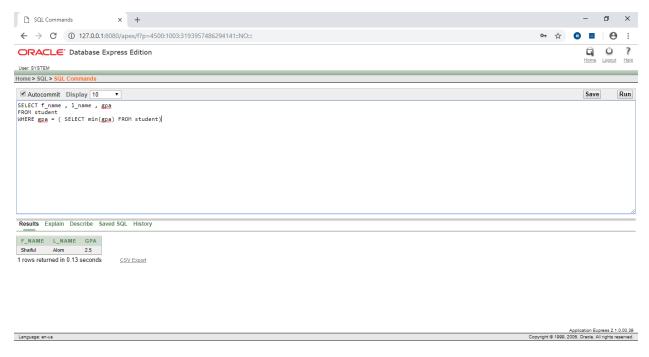Display the first name and room id of all students

Display the first name and room id of the student how will attend class on 10-4-18
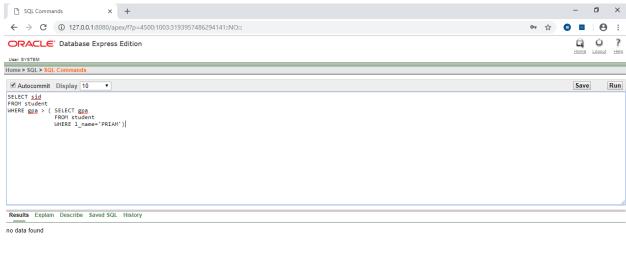
Sub query

Display the student first name, last name along with his or her GPA who have the lowest GPA.

Write a query to find the student id of the student who have a higher GPA then the student whose last name is 'PRIAM'.

Sub query

Display the student first and last name who is smaller than 'PRIAM'

Find the sid of the student who have the highest GPA.

Constraint
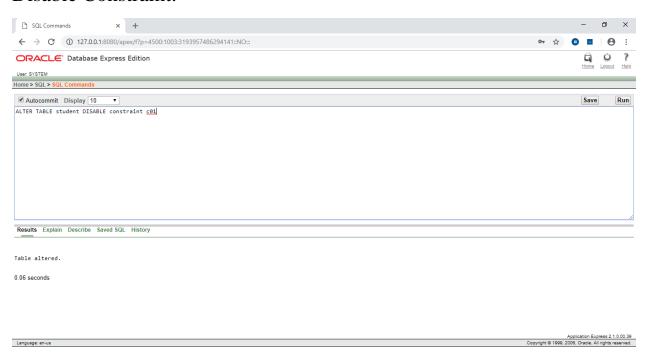
Add Constraint:

Disable Constraint:

Constraint

Enable Constraint:

-----END-----