CSE-221 Database

University management system

Team members:

Ayten Hossam Ahmed. 21100785 Ahella Mohamed Ali 21100824 Aysha Mohamed Elsayed 21100798

Description:

Our database system stores information on the subsystem of the following subsystems (Class material management, Payment option management, Courses management). Our database system was created to handle all kinds of university management. Our database is required to store in it all student information (Full name, ID, current year, phone numbers) and all staff information, it might be a doctor or TA. The student has the option to enroll in/drop one or more courses and the student can view timetable according to his enrolled courses. Also, the student has the option of paying his invoices for the semester by Mastercard. Students must have an adviser which might be another student. On the other hand, the doctor/TA has access to add attendance for some student in the course he teaches.

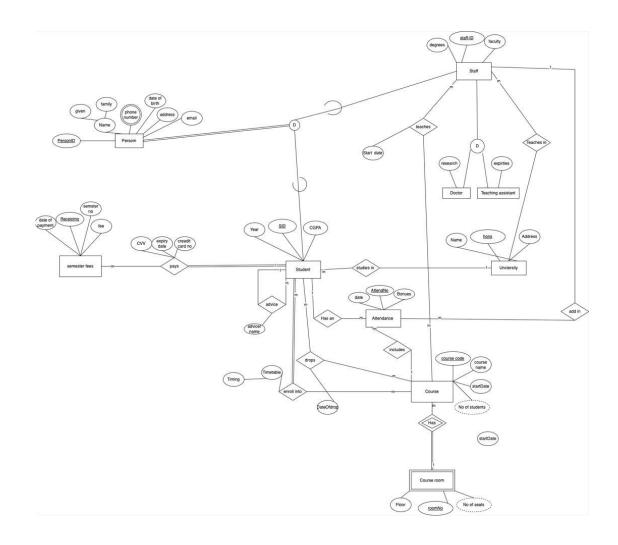
Business Rules:

- 1-The user must be an AIU student/staff member
- 2-Every course name should be unique on its own.
- 3-There are no two courses with the same code.
- 4-The student adviser can be one of the staff members or another student.
- 5-Every doctor/TA has a unique StaffID.
- 6-Student only have timetable when enroll to courses.
- 7-The student must pay the semester fees at the beginning of the semester to add courses to the new semester.

8-Only doctors can drop courses for a student or the student himself.

Queries:

- 1-Display all doctors IDs who teach "database".
- 2-Display all phone numbers of a certain student id.
- 3-Display specific student id semester fee payment information.
- 4-Display list of students' ids who pay for the 1st semester fees for a specific semester.
- 5- Display all students who dropped a certain course with courseID.
- 6-Display specific doctor ID all courses he/she teaches.
- 7-Display all students names whose CGPA is more than 3.0.



Relational Schema:

Person (<u>PersonID</u>, givenName,familyName,date of birth, address, email)

Phone (<u>PhoneID,PhoneNumber,PersonID</u>)
Phone(Person ID) is foreign key references from Person(Person ID)

Staff (<u>PersonID,Staff-ID</u>,dgrees,faculity,<u>hons</u>)
Staff(Person ID) is foreign key references from Person(Person ID)
Staff(hons) is foreign key references from University(hons)

Doctor (Staff-ID, research)
Doctor(Staff ID) is foreign key references from Staff(Staff ID)

Teaching assistant (<u>Staff-ID</u>_eexpirties)Teaching assistant(Staff ID) is foreign key references from Staff(Staff ID)

University (hons, Address, Name)

Student(<u>PersonID,SID</u>,CGPA,<u>UniHons</u>)
Advisor(<u>AdvisorID</u>,<u>AID</u>,AdvisorName,AdvisorRoom)
Advisor(AdvisorID) references Student(SID)

Student(UniHons) is foreign key references from University (Hons).

Course(Coursecode, coursename, satetdate, roomno)
Course(Roomno) is foreign key references from Courseroom(Roomno).

Course Room(roomno, floor)

Teaches(Start date, coursecode, staff Id)
Teaches(courseCode) is foreign key references from course(coursecode)
Teaches(StaffID) is foreign key references from Student(StaffID).

Enroll into (Day, timing, <u>SID</u>, <u>course code</u>)

Enroll into (SID) is foreign key references from Student.

Enroll into (Course code) is foreign key references from Course.

Drop(Date of drop, course code, SID)

Drop(SID) is foreign key references from Student.

Drop(Course code) is foreign key Drop references from Course.

Semester fees (<u>recipt no</u>,fee,date of payment,semesterno,CVV,expiry date,credit card no , SID)

SemesterFees(SID) is foreign key references from Student(SID).

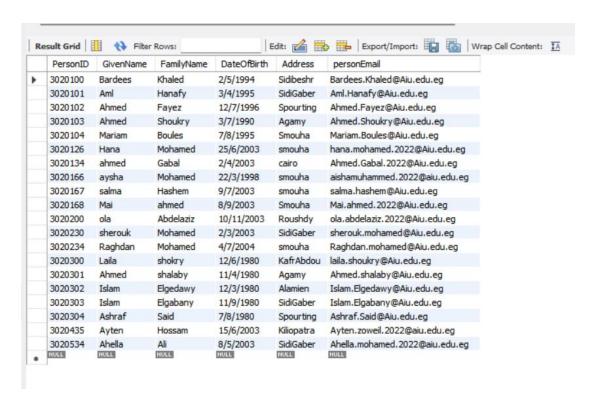
Attendence(Attendno,bonues,date,SID,course code ,Staff ID)

Attendance(SID) is foreign key references from Student(SID). Attendance (Course code) is foreign key references from Course. Attendance (Staff ID) if foreign key references from Staff.

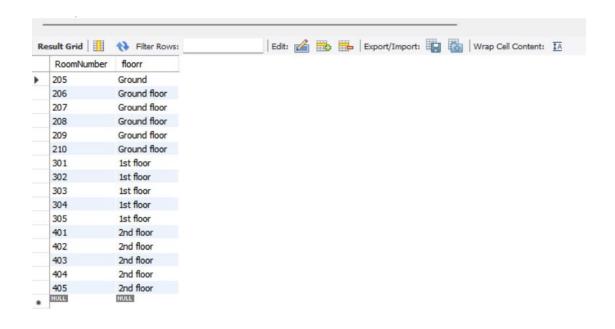
My SQL:

1.Create Tables:

create database universitysystem; Use universitysystem; create table Person(
PersonID int primary key,
GivenName varchar(30),
FamilyName varchar(30),
DateOfBirth varchar(30),
Address varchar(30),
personEmail varchar(30));



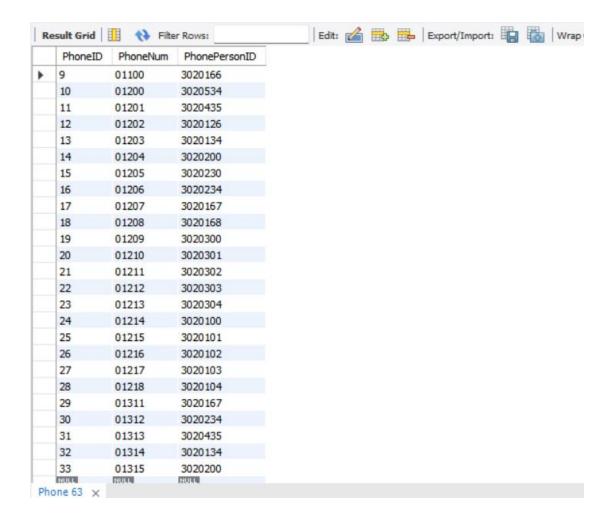
create table CourseRoom(
RoomNumber int primary key,
floorr varchar(30));



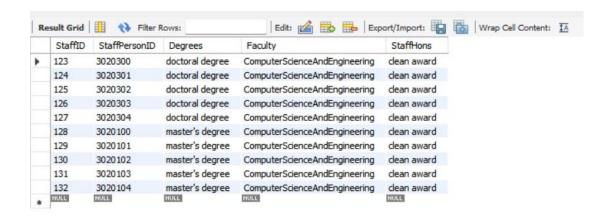
create table University(
Hons varchar(30) primary key,
Address varchar(30),
Namee varchar(30));



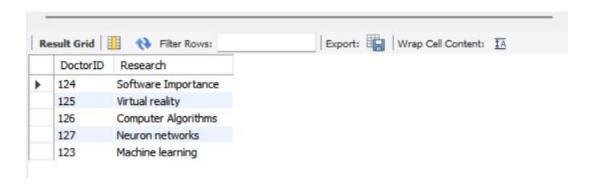
create table Phone(
PhoneID int primary key,
PhoneNum varchar(30),
PhonePersonID int ,
foreign key (PhonePersonID) references Person(PersonID));



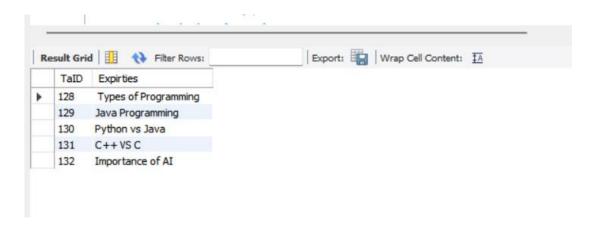
create table Staff(
StaffID varchar(30) Primary key,
StaffPersonID int,
foreign key (StaffPersonID) references Person(PersonID),
Degrees varchar(30),
Faculty varchar(30),
StaffHons varchar(30),
foreign key (StaffHons) references University(Hons));



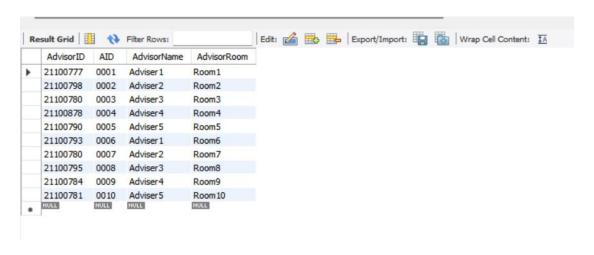
Create table Doctor(
DoctorID varchar(30),
foreign key (DoctorID) references Staff(StaffID),
Research varchar(30));



create table TeachingAssistant(
TaID varchar(30),
foreign key (TaID) references Staff(StaffID),
Expirties varchar(30));



create table Advisor(
AdvisorID varchar(30),
AID varchar(30) primary key,
AdvisorName varchar(30),
AdvisorRoom varchar(30),
foreign key (AdvisorID) references Student(SID));



create table Course(

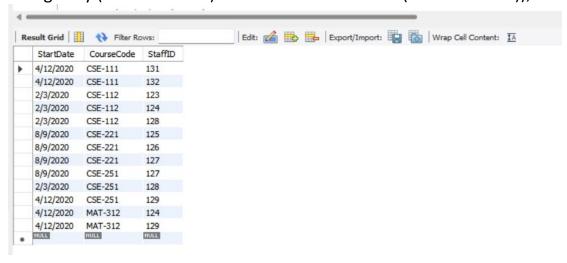
CourseCode varchar(30) primary key,

CourseName varchar(30) unique not null,

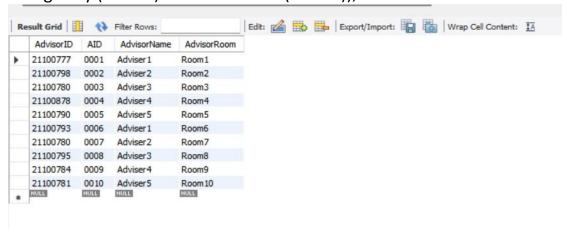
StartDate varchar(30),

RoomNumber int,

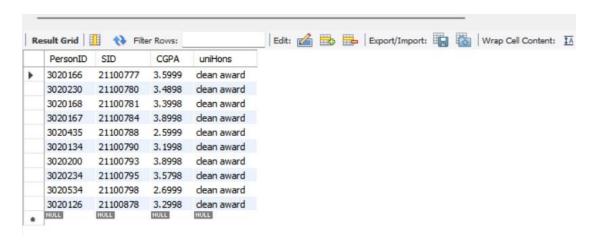
foreign key (RoomNumber) references CourseRoom(RoomNumber));



create table Teaches (StartDate varchar(30), CourseCode varchar(30), StaffID varchar(30), primary key(CourseCode,StaffID), foreign key (CourseCode) references Course(CourseCode), foreign key (StaffID) references Staff(StaffID));

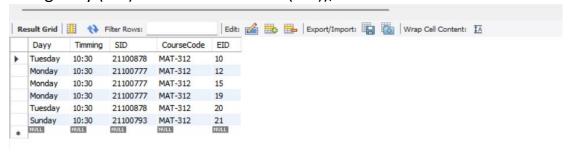


create table Student(
PersonID int,
SID varchar(30)primary key,
CGPA varchar(30),
uniHons varchar(30),
foreign key (PersonID) references Person(PersonID),
foreign key (uniHons) references University(Hons));

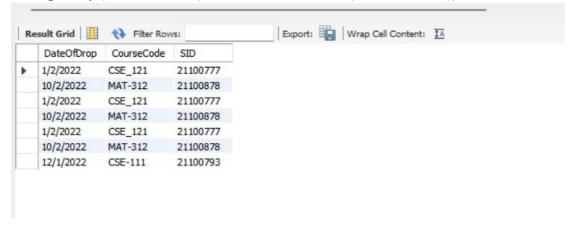


create table EnrollInto(
Dayy varchar(30),
Timming varchar(30),
SID varchar(30),
CourseCode varchar(30),
EID varchar(30) primary key,

foreign key (CourseCode) references Course(CourseCode), foreign key (SID) references Student (SID));

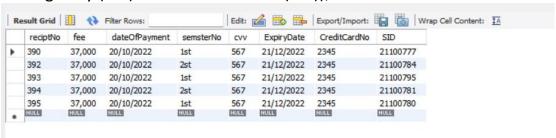


create table Dropp(
DateOfDrop varchar(30),
CourseCode varchar(30),
SID varchar(30),
foreign key (SID) references Student(SID),
foreign key (CourseCode) references Course (CourseCode));

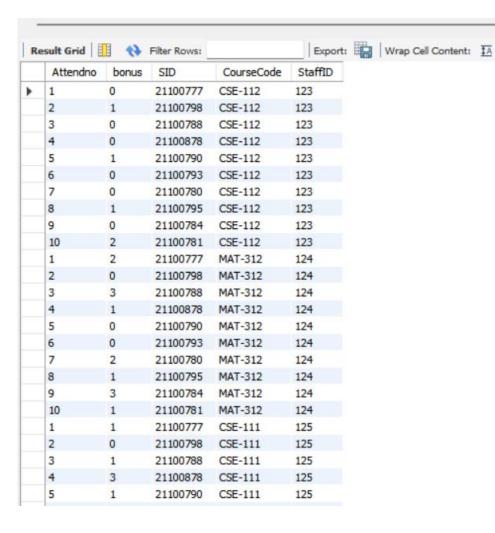


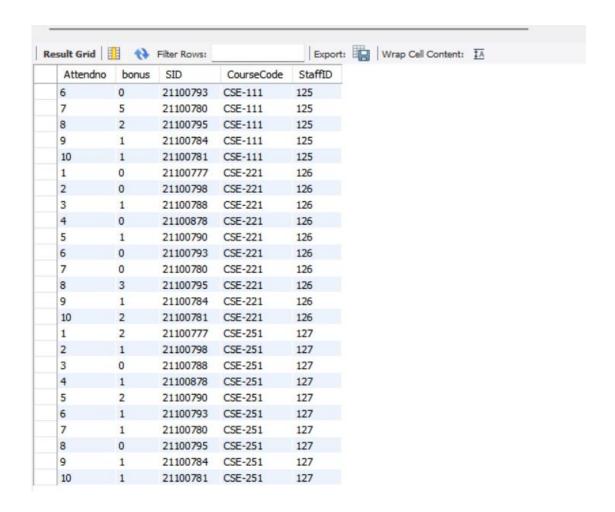
create table SemesterFees(
reciptNo int primary key,
fee varchar(30),
dateOfPayment varchar(30),
semsterNo varchar(30),
cvv int,

ExpiryDate varchar(30), CreditCardNo varchar(30), SID varchar(30) unique, foreign key (SID) references Student(SID));



create table Attendence(
Attendno int,
bonus int,
SID varchar(30),
CourseCode varchar(30),
StaffID varchar(30),
foreign key (SID) references Student(SID),
foreign key (CourseCode) references Course(CourseCode),
foreign key (StaffID) references Staff(StaffID));





2. Insert:

2.1. person Insert:

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values (3020166, "aysha",

"Mohamed","22/3/1998","smouha","aishamuhammed.2022@aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020534,"Ahella","Ali","8/5/2003","SidiGaber","Ahella.moham ed.2022@aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values (3020435, "Ayten", "Hossam",

"15/6/2003", "Kiliopatra", "Ayten.zoweil.2022@aiu.edu.eg"); insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020126,"Hana","Mohamed","25/6/2003","smouha","hana.m ohamed.2022@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020134,"ahmed","Gabal","2/4/2003","cairo","Ahmed.Gabal. 2022@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020200,"ola","Abdelaziz","10/11/2003","Roushdy","ola.abdel aziz.2022@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020230, "sherouk", "Mohamed", "2/3/2003", "SidiGaber", "sherouk.mohamed@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020234,"Raghdan","Mohamed","4/7/2004","smouha","Raghdan.mohamed@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020167,"salma","Hashem","9/7/2003","smouha","salma.hashem@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, Family Name, Date Of Birth, Address, person Email) values

(3020168,"Mai","ahmed","8/9/2003","Smouha","Mai.ahmed.2 022@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020300,"Laila","shokry","12/6/1980","KafrAbdou","laila.shoukry@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020301,"Ahmed","shalaby","11/4/1980","Agamy","Ahmed.sh alaby@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020302,"Islam","Elgedawy","12/3/1980","Alamien","Islam.Elgedawy@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020303,"Islam","Elgabany","11/9/1980","SidiGaber","Islam.Elgabany@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020304,"Ashraf","Said","7/8/1980","Spourting","Ashraf.Said @Aiu.edu.eg");

insert into

Person(PersonID, GivenName, Family Name, Date Of Birth, Address, person Email) values

(3020100,"Bardees","Khaled","2/5/1994","Sidibeshr","Bardees. Khaled@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020101,"Aml","Hanafy","3/4/1995","SidiGaber","Aml.Hanafy @Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020102,"Ahmed","Fayez","12/7/1996","Spourting","Ahmed.Fayez@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020103,"Ahmed","Shoukry","3/7/1990","Agamy","Ahmed.Shoukry@Aiu.edu.eg");

insert into

Person(PersonID, GivenName, FamilyName, DateOfBirth, Address, personEmail) values

(3020104,"Mariam","Boules","7/8/1995","Smouha","Mariam.B oules@Aiu.edu.eg");

2.2. CourseRoom Insert:

insert into CourseRoom(RoomNumber,floorr) values
(205,"Ground");

insert into CourseRoom(RoomNumber,floorr) values (206,"Ground floor");

insert into CourseRoom(RoomNumber,floorr) values (207,"Ground floor");

insert into CourseRoom(RoomNumber,floorr) values (208,"Ground floor");

insert into CourseRoom(RoomNumber,floorr) values (209,"Ground floor");

insert into CourseRoom(RoomNumber,floorr) values
(210,"Ground floor");

insert into CourseRoom(RoomNumber,floorr) values(301,"1st floor");

insert into CourseRoom(RoomNumber,floorr) values(302,"1st floor");

insert into CourseRoom(RoomNumber,floorr) values(303,"1st floor");

insert into CourseRoom(RoomNumber,floorr) values(304,"1st floor");

insert into CourseRoom(RoomNumber,floorr) values(305,"1st floor");

insert into CourseRoom(RoomNumber,floorr) values(401,"2nd floor");

insert into CourseRoom(RoomNumber,floorr) values(402,"2nd floor");

insert into CourseRoom(RoomNumber,floorr) values(403,"2nd floor");

insert into CourseRoom(RoomNumber,floorr) values(404,"2nd floor");

insert into CourseRoom(RoomNumber,floorr) values(405,"2nd floor");

2.3. University Insert:

insert into University(Hons,Address,Namee) values ("clean award","Alalamien street","AIU");

2.4. Course Insert:

```
insert into
Course(CourseCode,CourseName,StartDate,RoomNumber)
values ("CSE 121","AI","1/4/2022",205);
insert into
Course(CourseCode,CourseName,StartDate,RoomNumber)
values ("CSE-112"," Algorithms", "6/12/2022", 207);
insert into
Course(CourseCode,CourseName,StartDate,RoomNumber)
values ("MAT-312", "Differential Equations", "1/9/2022", 301);
insert into
Course(CourseCode,CourseName,StartDate,RoomNumber)
values ("CSE-111", "Data Structures", "4/3/2022", 401);
insert into
Course(CourseCode,CourseName,StartDate,RoomNumber)
values ("CSE-221","Database systems","19/5/2022",208);
insert into
Course(CourseCode,CourseName,StartDate,RoomNumber)
values ("CSE-251", "Software Engineering", "2/12/2022", 304);
```

2.5. Student Insert:

```
insert into Student(PersonID,SID,CGPA,uniHons) values (3020166,"21100777","3.5999","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020534,"21100798","2.6999","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020435,"21100788","2.5999","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020126,"21100878","3.2998","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020134,"21100790","3.1998","clean award");
```

insert into Student(PersonID,SID,CGPA,uniHons) values (3020200,"21100793","3.8998","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020230,"21100780","3.4898","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020234,"21100795","3.5798","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020167,"21100784","3.8998","clean award"); insert into Student(PersonID,SID,CGPA,uniHons) values (3020168,"21100781","3.3998","clean award");

2.6. Staff Insertion:

insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("123","3020300","doctoral

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("124","3020301","doctoral

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("125","3020302","doctoral

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("126","3020303","doctoral

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("127","3020304","doctoral

degree" ,"ComputerScienceAndEngineering","clean award");

insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("128","3020100","master's

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("129","3020101","master's

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("130","3020102","master's

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("131","3020103","master's

degree" ,"ComputerScienceAndEngineering","clean award");
insert into

Staff(StaffID,StaffPersonID,Degrees,Faculty,StaffHons) values ("132","3020104","master's

degree" ,"ComputerScienceAndEngineering","clean award");

2.7. Doctor Insert:

insert into Doctor(DoctorID, Research) values ("123", "Machine learning");

insert into Doctor(DoctorID, Research) values ("124", "Software Importance");

insert into Doctor(DoctorID, Research) values ("125", "Virtual reality");

insert into Doctor(DoctorID, Research) values ("126", "Computer Algorithms");

insert into Doctor(DoctorID,Research) values ("127","Neuron networks");

2.8. TeachingAssistant Insert:

```
insert into TeachingAssistant(TaID,Expirties) values ("128"," Types of Programming"); insert into TeachingAssistant(TaID,Expirties) values ("129","Java Programming"); insert into TeachingAssistant(TaID,Expirties) values ("130","Python vs Java"); insert into TeachingAssistant(TaID,Expirties) values ("131","C++ VS C"); insert into TeachingAssistant(TaID,Expirties) values ("132","Importance of AI");
```

2.9. Dropp Insert:

```
insert into Dropp (DateOfDrop,CourseCode,SID) values
("1/2/2022","CSE 121","21100777");
insert into Dropp (DateOfDrop,CourseCode,SID) values
("10/2/2022","MAT-312","21100878");
insert into Dropp (DateOfDrop,CourseCode,SID) values
("12/1/2022","CSE-111","21100793");
insert into Dropp (DateOfDrop,CourseCode,SID) values
("1/3/2022","CSE-221","21100780");
insert into Dropp (DateOfDrop,CourseCode,SID) values
("10/2/2022","CSE_121","21100784");
insert into Dropp (DateOfDrop,CourseCode,SID) values
("18/2/2022","CSE_121","21100795");
insert into Dropp (DateOfDrop,CourseCode,SID) values
("16/2/2022","CSE_121","21100781");
insert into Dropp (DateOfDrop,CourseCode,SID) values
("20/2/2022","CSE_121","21100780");
```

2.10. Phone Insert:

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("9","01100",3020166);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("10","01200",3020534);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("11","01201",3020435);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values
("12","01202",3020126);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("13","01203",3020134);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("14","01204",3020200);

insert into Phone(PhoneID, PhoneNum, PhonePersonID) values ("15", "01205", 3020230);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("16","01206",3020234);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("17","01207",3020167);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("18","01208",3020168);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("19","01209",3020300);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("20","01210",3020301);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("21","01211",3020302);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("22","01212",3020303);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("23","01213",3020304);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("24","01214",3020100);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("25","01215",3020101);

insert into Phone(PhoneID, PhoneNum, PhonePersonID) values ("26", "01216", 3020102);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("27","01217",3020103);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("28","01218",3020104);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("29","01311",3020167);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("30","01312",3020234);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("31","01313",3020435);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("32","01314",3020134);

insert into Phone(PhoneID,PhoneNum,PhonePersonID) values ("33","01315",3020200);

2.11. Teaches Insert:

insert into Teaches(StartDate,CourseCode,StaffID) values ("2/3/2020","CSE-112","128");

insert into Teaches(StartDate,CourseCode,StaffID) values ("4/12/2020","MAT-312","129");

insert into Teaches(StartDate,CourseCode,StaffID) values ("2/3/2020","CSE-112","123");

insert into Teaches(StartDate,CourseCode,StaffID) values ("2/3/2020","CSE-112","124");

insert into Teaches(StartDate,CourseCode,StaffID) values ("4/12/2020","MAT-312","124");

insert into Teaches(StartDate,CourseCode,StaffID) values ("8/9/2020","CSE-221","125");

```
insert into Teaches(StartDate,CourseCode,StaffID) values ("8/9/2020","CSE-221","126"); insert into Teaches(StartDate,CourseCode,StaffID) values ("8/9/2020","CSE-221","127"); insert into Teaches(StartDate,CourseCode,StaffID) values ("8/9/2020","CSE-251","127"); insert into Teaches(StartDate,CourseCode,StaffID) values ("2/3/2020","CSE-251","128"); insert into Teaches(StartDate,CourseCode,StaffID) values ("4/12/2020","CSE-251","129"); insert into Teaches(StartDate,CourseCode,StaffID) values ("4/12/2020","CSE-111","132"); insert into Teaches(StartDate,CourseCode,StaffID) values ("4/12/2020","CSE-111","131");
```

2.12. EnrollInto Insert:

```
insert into EnrollInto(Dayy,Timming,SID,CourseCode,EID) values ("Monday","10:30","21100777","MAT-312","19"); insert into EnrollInto(Dayy,Timming,SID,CourseCode,EID) values ("sunday","12:30","21100780","CSE_121","13"); insert into EnrollInto(Dayy,Timming,SID,CourseCode,EID) values ("Tuesday","10:30","21100878","MAT-312","20"); insert into EnrollInto(Dayy,Timming,SID,CourseCode,EID) values ("Wednesday","12:30","21100795","CSE_121","11"); insert into EnrollInto(Dayy,Timming,SID,CourseCode,EID) values ("Sunday","10:30","21100793","MAT-312","21"); insert into EnrollInto(Dayy,Timming,SID,CourseCode,EID) values ("Thursday","12:30","21100784","CSE_121","17");
```

2.13. Advisor Insert:

```
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100777","0001","Adviser1","Room1");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100798","0002","Adviser2","Room2");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100780","0003","Adviser3","Room3");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100878","0004","Adviser4","Room4");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100790","0005","Adviser5","Room5");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100793","0006","Adviser1","Room6");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100780","0007","Adviser2","Room7");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100795","0008","Adviser3","Room8");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100784","0009","Adviser4","Room9");
insert into Advisor(AdvisorID, AID, AdvisorName, AdvisorRoom)
values ("21100781","0010","Adviser5","Room10");
```

2.14. SemesterFees Insert:

insert into

SemesterFees(reciptNo,fee,dateOfPayment,semsterNo,cvv,ExpiryDate,CreditCardNo,SID) values (390,"37,000","20/10/2022","1st",567,"21/12/2022","2345","21100777"); insert into

SemesterFees(reciptNo,fee,dateOfPayment,semsterNo,cvv,ExpiryDate,CreditCardNo,SID) values

```
(392,"37,000","20/10/2022","2st",567,"21/12/2022","2345","2 1100784");
```

insert into

SemesterFees(reciptNo,fee,dateOfPayment,semsterNo,cvv,ExpiryDate,CreditCardNo,SID) values

(393,"37,000","20/10/2022","1st",567,"21/12/2022","2345","2 1100795");

insert into

SemesterFees(reciptNo,fee,dateOfPayment,semsterNo,cvv,ExpiryDate,CreditCardNo,SID) values

(394,"37,000","20/10/2022","2st",567,"21/12/2022","2345","2 1100781");

insert into

SemesterFees(reciptNo,fee,dateOfPayment,semsterNo,cvv,ExpiryDate,CreditCardNo,SID) values

(395,"37,000","20/10/2022","1st",567,"21/12/2022","2345","2 1100780");

2.15. Attendance Insert:

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID) values(1,0,"21100777","CSE-112","123");

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID) values(2,1,"21100798","CSE-112","123");

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID) values(3,0,"21100788","CSE-112","123");

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID) values(4,0,"21100878","CSE-112","123");

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID) values(5,1,"21100790","CSE-112","123");

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID) values(6,0,"21100793","CSE-112","123");

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID) values(7,0,"21100780","CSE-112","123");

```
values(8,1,"21100795","CSE-112","123");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(9,0,"21100784","CSE-112","123");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(10,2,"21100781","CSE-112","123");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(1,2,"21100777","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(2,0,"21100798","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(3,3,"21100788","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(4,1,"21100878","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(5,0,"21100790","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(6,0,"21100793","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(7,2,"21100780","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(8,1,"21100795","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(9,3,"21100784","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(10,1,"21100781","MAT-312","124");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(1,1,"21100777","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(2,0,"21100798","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(3,1,"21100788","CSE-111","125");
```

insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)

```
values(4,3,"21100878","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(5,1,"21100790","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(6,0,"21100793","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(7,5,"21100780","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(8,2,"21100795","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(9,1,"21100784","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(10,1,"21100781","CSE-111","125");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(1,0,"21100777","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(2,0,"21100798","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(3,1,"21100788","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(4,0,"21100878","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(5,1,"21100790","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(6,0,"21100793","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(7,0,"21100780","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(8,3,"21100795","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(9,1,"21100784","CSE-221","126");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(10,2,"21100781","CSE-221","126");
```

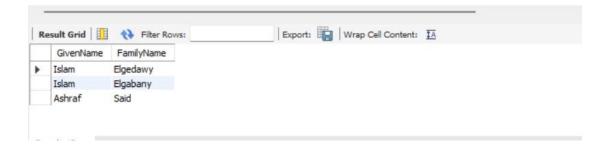
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)

```
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(1,2,"21100777","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(2,1,"21100798","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(3,0,"21100788","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(4,1,"21100878","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(5,2,"21100790","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(6,1,"21100793","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(7,1,"21100780","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(8,0,"21100795","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(9,1,"21100784","CSE-251","127");
insert into Attendence(Attendno,bonus,SID,CourseCode,StaffID)
values(10,1,"21100781","CSE-251","127");
```

3. Queries:

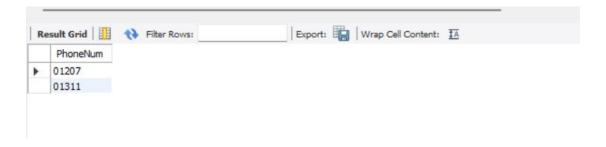
1-Display all doctors IDs who teach "database".

select Person.GivenName,Person.FamilyName from Person,Staff,Doctor,Teaches where Person.PersonID=Staff.StaffPersonID And Staff.StaffID=Doctor.DoctorID And Doctor.DoctorID=Teaches.StaffID And Teaches.CourseCode="CSE-221";



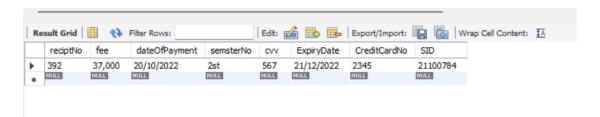
2-Display All Phone Numbers Of a Certain StudentID.

select Phone.PhoneNum from Student,phone where Student.SID="21100784" And Student.PersonID=Phone.PhonePersonID;



3-Display Specific Student Id SemesterFee payment Information.

select * from SemesterFees where SemesterFees.SID="21100784";



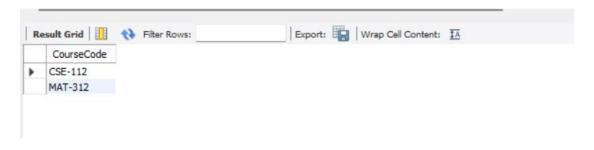
4-Display All Students Who Drop A Certain Course with Course ID.

select Person.GivenName,Person.FamilyName from Person,Student,Dropp where Person.PersonID=Student.PersonID And Student.SID=Dropp.SID And Dropp.CourseCode="CSE-111";



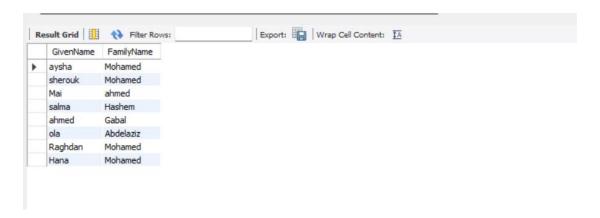
5-Display courses That Doctor Teach By Doctor ID.

select Teaches.CourseCode from Doctor,Teaches where Doctor.DoctorID=Teaches.StaffID And Teaches.StaffID="124";



6-Display All Students Names Whose CGPA is More Than 3.0.

select Person.GivenName,Person.FamilyName from Person,Student where Person.PersonID=Student.PersonID And Student.CGPA>"3.0";



7-Display List Of Students'lds who paied for the First Semester.

select SemesterFees.SID from Student,SemesterFees where Student.SID=SemesterFees.SID And SemesterFees.semsterNo="1st";

