

INTERNATIONAL ISLAMIC UNIVERSITY
CHITTAGONG

Department Of Computer Science & Engineering

PROJECT

Course Selection System Database

Course Title - Database Management System (Lab)

Course Code - cse-2424

SUBMITTED BY

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SECTION: 4AM

SUBMITTED TO

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Abstract:

The way this course selection database is set up will make choosing and registering for courses simpler, more effective, and less time-consuming.

It is the perfect answer for university management since it helps to eliminate duplication of effort, boost productivity, maintain effective governance, and deliver quality services to both students and faculty members.

This is a simple course selection system in which a student can choose his own courses as well as courses taught by specific teachers. I have also included an advisor entity that will provide necessary feedback about the student and determine whether the student is eligible to take that course based on his CGPA.

Course Selection System Database Schema:

1)**Student** (S_id, S_name, S_dept, CGPA, S_contact, S_email)

2)**Teacher** (T_id, T_name, T_email, T_address, S_id)

3)**Course** (C_id, C_name, S_id, C_credit)

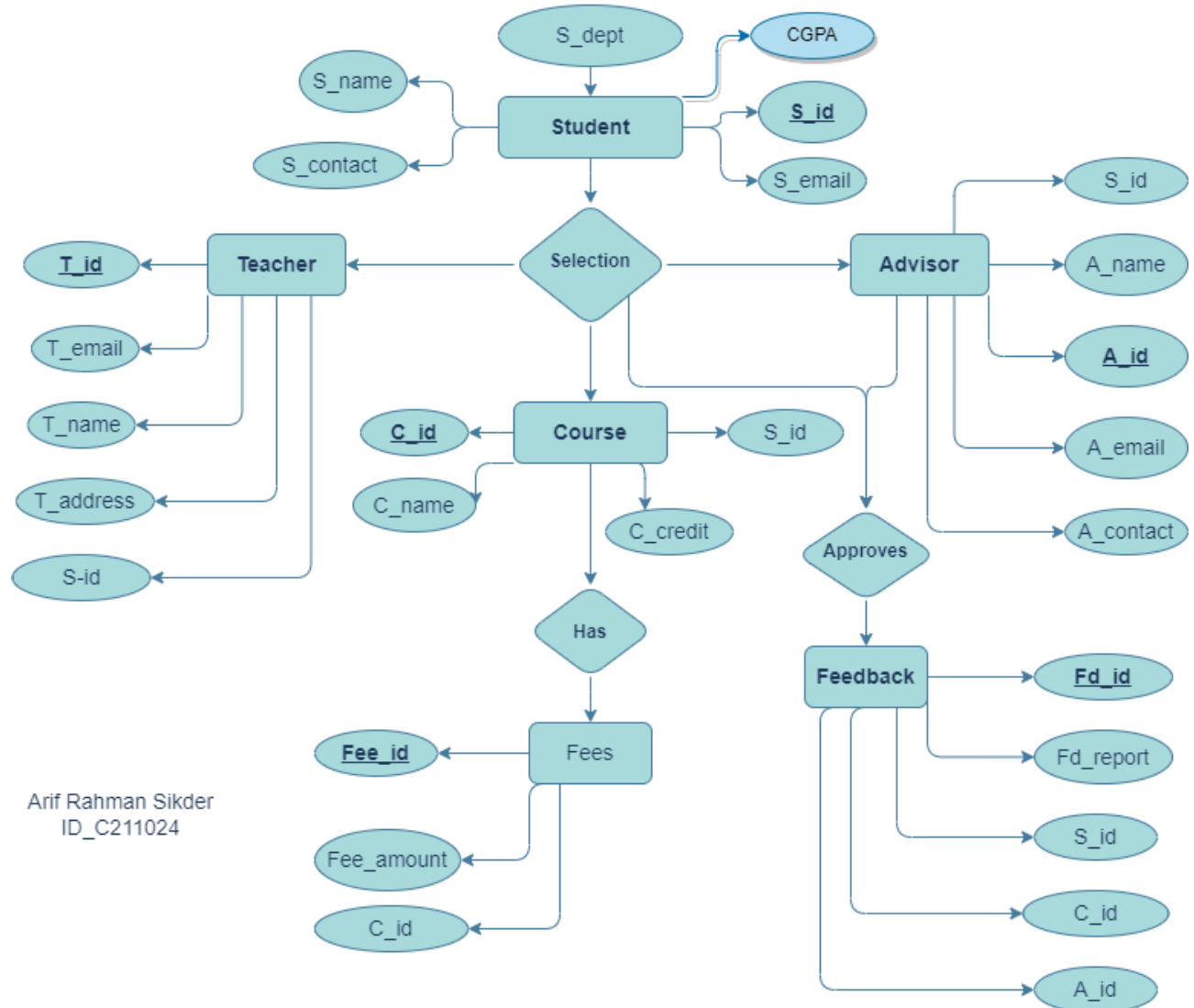
4)**Advisor** (A_id, A_name, A_email, A_contact, S_id)

5)**Fees** (F_id, F_amount, C_id)

6)**Feedback** (Fd_id, Fd_report, S_id, C_id, S_id)

Entity Relationship Diagram(ERD):

Course Selection System (ERD)



ERD link:

<https://drive.google.com/drive/u/1/folders/1vzshCLZ1NVUXpWfwvc8MCVZqSNDklRj7>

Data and SQL

STUDENT

SQL:

```
CREATE TABLE "STUDENT"
(
  "S_ID" VARCHAR2(10) NOT NULL ENABLE,
  "S_NAME" VARCHAR2(40),
  "S_DEPT" VARCHAR2(10),
  "S_CONTACT" VARCHAR2(15),
  "S_EMAIL" VARCHAR2(30),
  "CGPA" NUMBER NOT NULL ENABLE,
  CONSTRAINT "STUDENT_PK" PRIMARY KEY ("S_ID") ENABLE
)
/
```

Table:

S_ID	S_NAME	S_DEPT	S_CONTACT	S_EMAIL	CGPA
C211025	Iftexhar Alam	CSE	01819909323	c211025@ugrad.iuc.ac.bd	3.22
C211004	Monjurul Hoque	EEE	01819909444	c211004@ugrad.iuc.ac.bd	3.91
C211007	Samiul Shuvo	EEE	01819909555	c211007@ugrad.iuc.ac.bd	3.67
c211001	Rakibul Islam Bijoy	CSE	01819909323	c211002@ugrad.iuc.ac.bd	3.81
C211024	Arif Rahman Sikder	CSE	01830065110	c211024@ugrad.iuc.ac.bd	3.17
C211035	Md Ismail	CSE	01690012345	c211025@ugrad.iuc.ac.bd	3.95
C211001	Anamul Hoque	CSE	01813620787	c211001@ugrad.iuc.ac.bd	3.8
C211003	Sakibul Islam	CSE	01819909343	c211003@ugrad.iuc.ac.bd	3.71
C211021	Rahimul Islam	CSE	01838886565	c211021@ugrad.iuc.ac.bd	3.25
C211032	Rashedul Arefin Ifty	CSE	01830065120	c211032@ugrad.iuc.ac.bd	3.75

TEACHER

SQL:

```
CREATE TABLE "TEACHER"
(
  "T_ID" VARCHAR2(10) NOT NULL ENABLE,
  "S_ID" VARCHAR2(10),
  "T_NAME" VARCHAR2(40),
  "T_EMAIL" VARCHAR2(30),
  "T_ADDRESS" VARCHAR2(40),
  CONSTRAINT "TEACHER_PK" PRIMARY KEY ("T_ID") ENABLE,
  CONSTRAINT "TEACHER_FK" FOREIGN KEY ("S_ID")
    REFERENCES "STUDENT" ("S_ID") ENABLE
)
/
```

Table:

T_ID	S_ID	T_NAME	T_EMAIL	T_ADDRESS
T0003	C211024	Aman Ullah	AmanUllah@gmail.com	chandgaon, chattogram
T0005	C211032	Shaiyan Ameen	shaiyanameen@gmail.com	muradpur, chattogram
T0001	C211001	Rashedul Islam	Rashedulismal@gmail.com	bahaddarhat, chattogram
T0004	C211035	Akm Sabbir Ahmed	sabbirahmed@gmail.caom	bahaddarhat, chattogram
T0009	C211007	Rafid arefin	rafidarefin@gmail.com	gec, chattogram
T0006	C211025	Ariful Hoque Siddique	Arifulhoque@gmail.com	oxygen, chattogram
T0007	C211008	Sajidul hoque	sajidulhoque@gmail.com	sitakunda, chattogram
T0010	C211004	kamal Uddin	kamaluddin@gmail.com	terminal, chattogram
T0002	C211003	Chowdhury Hossain	Chowdhuryhossain@gmail.com	chandgaon, chattogram
T0008	C211021	Monjurul Hoque	monjurulhoque@gmail.com	oxygen, chattogram

COURSE

SQL:

```
CREATE TABLE "COURSE"
(
  "C_ID" VARCHAR2(10),
  "C_NAME" VARCHAR2(40),
  "C_CREDIT" VARCHAR2(10),
  "S_ID" VARCHAR2(10),
  CONSTRAINT "COURSE_PK" PRIMARY KEY ("C_ID") ENABLE,
  CONSTRAINT "COURSE_FK" FOREIGN KEY ("S_ID")
    REFERENCES "STUDENT" ("S_ID") ENABLE
)
```

Table:

C_ID	C_NAME	C_CREDIT	S_ID
1002	Algorithm	3	C211004
1004	Programming 1	3	C211008
1010	URED	1	C211032
1006	Theory of Computing	3	C211035
1008	Bangla	2	C211003
1001	Database	3	C211025
1003	Data structure	3	C211007
1005	Competitive programming	1	C211024
1007	Digital Logic	3	C211001
1009	Accounting	2	C211021

ADVISOR

SQL:

```
CREATE TABLE "ADVISOR"
(
  "A_ID" VARCHAR2(10) NOT NULL ENABLE,
  "A_NAME" VARCHAR2(40),
  "A_EMAIL" VARCHAR2(30),
  "A_CONTACT" VARCHAR2(15),
  "S_ID" VARCHAR2(10),
  CONSTRAINT "ADVISOR_PK" PRIMARY KEY ("A_ID") ENABLE,
  CONSTRAINT "ADVISOR_FK" FOREIGN KEY ("S_ID")
    REFERENCES "STUDENT" ("S_ID") ENABLE
)
/
```

Table:

A_ID	A_NAME	A_EMAIL	A_CONTACT	S_ID
A010	Masum Sikder	masumsikder@gmail.com	01814404333	C211032
A006	rifat hoque	rifathoque@gmail.com	01860809033	C211035
A007	Tafhim chowdhury	tafhimchowdhury@gmail.com	01819909656	C211001
A009	Muhammed Miraj	muhammedMiraj@gmail.com	01956323555	C211021
A001	Monjurul islam	monjurulislam@gmail.com	01819909322	C211025
A002	Iftekharul Islam Joshim	Iftekhar@gmail.com	01918990933	C211004
A004	zubairul islam	zubairulislam@gmail.com	01881388341	C211008
A008	Arfat rahman	arfatrahman@gmail.com	01881388541	C211003
A003	Israkh howladar	ishrakhhowladar@gmail.com	01919909455	C211007
A005	Rahat Manjur	rahatmanjur@gmail.com	01860709044	C211024

FEES

SQL:

```
CREATE TABLE "FEES"
(  "FEE_ID" VARCHAR2(10) NOT NULL ENABLE,
  "FEE_AMOUNT" VARCHAR2(20),
  "C_ID" VARCHAR2(10),
  CONSTRAINT "FEES_PK" PRIMARY KEY ("FEE_ID") ENABLE,
  CONSTRAINT "FEES_CK1" CHECK (FEE_AMOUNT >= 0) ENABLE,
  CONSTRAINT "FEES_FK" FOREIGN KEY ("C_ID")
    REFERENCES "COURSE" ("C_ID") ENABLE
)
```

Table:

FEE_ID	FEE_AMOUNT	C_ID
F3	3000	1003
F6	3000	1006
F10	1000	1010
F2	3000	1002
F5	1000	1005
F8	2000	1008
F1	3000	1001
F4	3000	1004
F7	3000	1007
F9	2000	1009

FEEDBACK

SQL:

```
CREATE TABLE "FEEDBACK"
(
  "FD_ID" VARCHAR2(10) NOT NULL ENABLE,
  "FD_REPORT" VARCHAR2(40),
  "S_ID" VARCHAR2(10),
  "C_ID" VARCHAR2(10),
  "A_ID" VARCHAR2(10),
  CONSTRAINT "FEEDBACK_PK" PRIMARY KEY ("FD_ID") ENABLE,
  CONSTRAINT "FEEDBACK_FK" FOREIGN KEY ("S_ID")
    REFERENCES "STUDENT" ("S_ID") ENABLE,
  CONSTRAINT "FEEDBACK_FK2" FOREIGN KEY ("C_ID")
    REFERENCES "COURSE" ("C_ID") ENABLE,
  CONSTRAINT "FEEDBACK_FK3" FOREIGN KEY ("A_ID")
    REFERENCES "ADVISOR" ("A_ID") ENABLE
)
/
```

Table:

FD_ID	FD_REPORT	S_ID	C_ID	A_ID
7	Accepted	C211035	1007	A007
10	Accepted	C211032	1010	A010
1	Accepted	C211025	1001	A001
4	Accepted	C211008	1004	A004
6	Rejected	C211024	1006	A006
2	Accepted	C211004	1002	A002
5	Rejected	C211024	1005	A005
8	Accepted	C211003	1008	A008
3	Accepted	C211007	1003	A003
9	Rejected	C211021	1009	A009

SEARCHING DATA FROM INDIVIDUAL TABLE (at least 10 ways)

1) Find student information about 'Iftexhar Alam'.

Ans:

```
select*
from STUDENT
where S_name = 'Iftexhar Alam';
```

S_ID	S_NAME	S_DEPT	S_CONTACT	S_EMAIL	CGPA
C211025	Iftexhar Alam	CSE	01819909323	c211025@ugrad.iiuc.ac.bd	3.22

2) Find the information of students who are studying EEE.

Ans:

```
select*
from STUDENT
where S_dept = 'EEE';
```

S_ID	S_NAME	S_DEPT	S_CONTACT	S_EMAIL	CGPA
C211004	Monjurul Hoque	EEE	01819909444	c211004@ugrad.iiuc.ac.bd	3.91
C211007	Samiul Shuvo	EEE	01819909555	c211007@ugrad.iiuc.ac.bd	3.67

3) Find the highest CGPA from the student table;

Ans:

Select max (CGPA) from student;

MAX(CGPA)
3.95

1 rows returned in 0.00 seconds

4) Courses which contain highest credit.

Ans:

```
select * from course
```

```
where c_credit= 3;
```

C_ID	C_NAME	C_CREDIT	S_ID
1002	Algorithm	3	C211004
1004	Programming 1	3	C211008
1006	Theory of Computing	3	C211035
1001	Database	3	C211025
1003	Data structure	3	C211007
1007	Digital Logic	3	C211001

5) List of all unique courses available.

Ans:

```
select distinct C_name
```

```
from Course;
```

C_NAME
Theory of Computing
Accounting
Database
Digital Logic
3000
Competitive programming
Algorithm
URED
Programming 1
Bangla
Data structure

6) Sort all the results of students by CGPA in ascending order.

Ans:

select * from Student
order by CGPA;

S_ID	S_NAME	S_DEPT	S_CONTACT	S_EMAIL	CGPA
C211024	Arif Rahman Sikder	CSE	01830065110	c211024@ugrad.iuc.ac.bd	3.17
C211025	Iftexhar Alam	CSE	01819909323	c211025@ugrad.iuc.ac.bd	3.22
C211021	Rahimul Islam	CSE	01838886565	c211021@ugrad.iuc.ac.bd	3.25
C211007	Samiul Shuvo	EEE	01819909555	c211007@ugrad.iuc.ac.bd	3.67
C211003	Sakibul Islam	CSE	01819909343	c211003@ugrad.iuc.ac.bd	3.71
C211032	Rashedul Arefin Ifty	CSE	01830065120	c211032@ugrad.iuc.ac.bd	3.75
C211001	Anamul Hoque	CSE	01813620787	c211001@ugrad.iuc.ac.bd	3.8
C211008	Rakibul Islam Bijoy	CSE	01819909323	c211002@ugrad.iuc.ac.bd	3.81
C211004	Monjurul Hoque	EEE	01819909444	c211004@ugrad.iuc.ac.bd	3.91
C211035	Md Ismail	CSE	01690012345	c211025@ugrad.iuc.ac.bd	3.95

7) Find teachers information whose name start at the beginning with 'A'.

Ans:

Select * from teacher
where (t_name)like 'A%';

T_ID	S_ID	T_NAME	T_EMAIL	T_ADDRESS
T0003	C211024	Aman Ullah	AmanUllah@gmail.com	chandgaon, chattogram
T0004	C211035	Akm Sabbir Ahmed	sabbirahmed@gmail.caom	bahaddarhat, chattogram
T0006	C211025	Ariful Hoque Siddique	Arifulhoque@gmail.com	oxygen, chattogram

8) Information of the students who are rejected by their advisors .

Ans:

Select * from FEEDBACK
where fd_report='Rejected';

FD_ID	FD_REPORT	S_ID	C_ID	A_ID
6	Rejected	C211024	1006	A006
5	Rejected	C211024	1005	A005
9	Rejected	C211021	1009	A009

9)Select the amount of fees of individual courses.

Ans:

```
select Fee_id, Fee_amount, C_id
from fees;
```

FEE_ID	FEE_AMOUNT	C_ID
F3	3000	1003
F6	3000	1006
F10	1000	1010
F2	3000	1002
F5	1000	1005
F8	2000	1008
F1	3000	1001
F4	3000	1004
F7	3000	1007
F9	2000	1009

10)Select all advisors information from advisor table.

Ans:

```
select A_id, A_name, A_email, A_contact
from Advisor;
```

A_ID	A_NAME	A_EMAIL	A_CONTACT
A010	Masum Sikder	masumsikder@gmail.com	01814404333
A006	rifat hoque	rifathoque@gmail.com	01860809033
A007	Tafhim chowdhury	tafhimchowdhury@gmail.com	01819909656
A009	Muhammed Miraj	muhammedMiraj@gmail.com	01956323555
A001	Monjurul islam	monjurulislam@gmail.com	01819909322
A002	Iftekharul Islam Joshim	lftekhar@gmail.com	01918990933
A004	zubairul islam	zubairulislam@gmail.com	01881388341
A008	Arfat rahman	arfatrahman@gmail.com	01881388541
A003	Israkh howladar	ishrakhowladar@gmail.com	01919909455
A005	Rahat Manjur	rahatmanjur@gmail.com	01860709044

SEARCHING DATA IN POSSIBLE WAYS FROM MULTIPLE TABLE (at least 5 ways)

- 1) Display student id by the order of advisor id

Ans:

```
select t_id, s_id from Student
natural join Teacher
order by t_id;
```

T_ID	S_ID
T0001	C211001
T0002	C211003
T0003	C211024
T0004	C211035
T0005	C211032
T0006	C211025
T0007	C211008
T0008	C211021
T0009	C211007
T0010	C211004

- 2) Display all the 'Rejected' feedback of the students from advisor along with their id due to low CGPA.

Ans:

```
select a_id, s_id, s_name, CGPA, Fd_report
from student natural join feedback
where fd_report = 'Rejected';
```

A_ID	S_ID	S_NAME	CGPA	FD_REPORT
A006	C211024	Arif Rahman Sikder	3.17	Rejected
A009	C211021	Rahimul Islam	3.25	Rejected

- 3) Display all the 'Accepted' feedback of the students from advisor along with their information due to moderate CGPA.

Ans:

```
select a_id, s_id, s_name, CGPA, Fd_report
from student natural join feedback
where fd_report = 'Accepted';
```

A_ID	S_ID	S_NAME	S_DEPT	CGPA	FD_REPORT
A001	C211025	Iftekhar Alam	CSE	3.22	Accepted
A002	C211004	Monjurul Hoque	EEE	3.91	Accepted
A003	C211007	Samiul Shuvo	EEE	3.67	Accepted
A004	C211008	Rakibul Islam Bijoy	CSE	3.81	Accepted
A007	C211035	Md Ismail	CSE	3.95	Accepted
A005	C211001	Anamul Hoque	CSE	3.8	Accepted
A008	C211003	Sakibul Islam	CSE	3.71	Accepted
A010	C211032	Rashedul Arefin Ifty	CSE	3.75	Accepted

- 4) Display all the fees for the courses with student information.

Ans:

```
select s_id, fee_id, fee_amount, c_id, c_credit
from fees natural join course ;
```

S_ID	FEE_ID	FEE_AMOUNT	C_ID	C_CREDIT
C211004	F2	3000	1002	3
C211008	F4	3000	1004	3
C211032	F10	1000	1010	1
C211035	F6	3000	1006	3
C211003	F8	2000	1008	2
C211025	F1	3000	1001	3
C211007	F3	3000	1003	3
C211024	F5	1000	1005	1
C211001	F7	3000	1007	3
C211021	F9	2000	1009	2

- 5) Display all the student id and name with their feedback using inner join

Ans:

```
select student. s_id, s_name , Fd_report
from student
INNER JOIN feedback
ON student. s_id=feedback. s_id;
```

S_ID	S_NAME	FD_REPORT
C211035	Md Ismail	Accepted
C211032	Rashedul Arefin Ifty	Accepted
C211025	Iftexhar Alam	Accepted
C211008	Rakibul Islam Bijoy	Accepted
C211024	Arif Rahman Sikder	Rejected
C211004	Monjurul Hoque	Accepted
C211001	Anamul Hoque	Accepted
C211003	Sakibul Islam	Accepted
C211007	Samiul Shuvo	Accepted
C211021	Rahimul Islam	Rejected

ALL TYPES OF SUB-QUERIES

- 1) Find the maximum CGPA of student and display his information.

Ans:

```
select *
from student
where CGPA = (select max(CGPA)from student);
```

S_ID	S_NAME	S_DEPT	S_CONTACT	S_EMAIL	CGPA
C211035	Md Ismail	CSE	01690012345	c211025@ugrad.iuc.ac.bd	3.95

2) Find the information of student who has minimum CGPA.

Ans:

```
select *
from student
where CGPA <= (select(min(CGPA))
from student);
```

S_ID	S_NAME	S_DEPT	S_CONTACT	S_EMAIL	CGPA
C211024	Arif Rahman Sikder	CSE	01830065110	c211024@ugrad.iiuc.ac.bd	3.17

3) Find the information of students who got CGPA more than '3.70'.

Ans:

```
SELECT * FROM student
WHERE s_ID IN (SELECT s_ID FROM student WHERE
CGPA > 3.70);
```

S_ID	S_NAME	S_DEPT	S_CONTACT	S_EMAIL	CGPA
C211004	Monjurul Hoque	EEE	01819909444	c211004@ugrad.iiuc.ac.bd	3.91
C211008	Rakibul Islam Bijoy	CSE	01819909323	c211002@ugrad.iiuc.ac.bd	3.81
C211035	Md Ismail	CSE	01690012345	c211025@ugrad.iiuc.ac.bd	3.95
C211001	Anamul Hoque	CSE	01813620787	c211001@ugrad.iiuc.ac.bd	3.8
C211003	Sakibul Islam	CSE	01819909343	c211003@ugrad.iiuc.ac.bd	3.71
C211032	Rashedul Arefin Ifty	CSE	01830065120	c211032@ugrad.iiuc.ac.bd	3.75

4) Display information of the students who paid '3000' for Course

```
Ans: select *from fees
where fee_id = ANY (select fee_id from fees where
fee_amount = 3000);
```

FEE_ID	FEE_AMOUNT	C_ID
F3	3000	1003
F6	3000	1006
F2	3000	1002
F1	3000	1001
F4	3000	1004
F7	3000	1007

5) Find the information of teachers who live in Chandgaon Chattogram.

Ans:

```
select * from teacher
where T_address = 'chandgaon,chattogram';
```

T_ID	S_ID	T_NAME	T_EMAIL	T_ADDRESS
T0003	C211024	Aman Ullah	AmanUllah@gmail.com	chandgaon,chattogram
T0002	C211003	Chowdhury Hossain	Chowdhuryhossain@gmail.com	chandgaon,chattogram

PL/SQL

1) Display name department and contact of the student whose id is C211007

Ans:

```
DECLARE
```

```
sname student.s_name%type;
```

```
sdept student.s_dept%type;
```

```
scontact student.s_contact%type;
```

```
BEGIN
```

```
select s_NAME , s_dept , s_contact into sname
```

```
, sdept , scontact
```

```
from student
```

```
where s_id = 'C211007';
```

```
dbms_output.put_line('student information : ');
```

```
dbms_output.put_line('student Name : ' || sname);
```

```
dbms_output.put_line('student department : ' || sdept);
```

```
dbms_output.put_line('student Mobile : ' || scontact);
```

```
END;
```

```
student information :  
student Name : Samiul Shuvo  
student department : EEE  
student Mobile : 01819909555
```

```
Statement processed.
```

```
0.00 seconds
```

2) Display students information who has the lowest CGPA

Ans:

DECLARE

sname student.s_name%type;

sdept student.s_dept%type;

scontact student.s_contact%type;

Grade student.CGPA%type;

BEGIN

select s_NAME , s_dept , s_contact,CGPA into sname

, sdept , scontact,Grade

from student

where CGPA < 3.20;

dbms_output.put_line('student information :');

dbms_output.put_line('student Name : ' || sname);

dbms_output.put_line('student department : ' || sdept);

dbms_output.put_line('student Mobile : ' || scontact);

dbms_output.put_line('student CGPA : ' || Grade);

END;

```
student information :
student Name : Arif Rahman Sikder
student department : CSE
student Mobile : 01830065110
student CGPA : 3.17
```

Statement processed.

0.00 seconds

3) Display all the information of the course table.

Ans:

DECLARE

cid course.c_id%type;

cname course.c_name%type;

ccredit course.c_credit%type;

CURSOR dia_cur IS

select c_id,c_name,c_credit

from course;

BEGIN

OPEN dia_cur;

LOOP

FETCH dia_cur INTO cid,cname,ccredit;

EXIT WHEN dia_cur%notfound;

dbms_output.put_line('course id: '||cid||' '||'Name: '||cname||' '||' credit:'||ccredit);

END LOOP;

CLOSE dia_cur;

END;

```
course id: 1002 Name: Algorithm    credit:3
course id: 1004 Name: Programming 1 credit:3
course id: 1010 Name: URED        credit:1
course id: 1006 Name: Theory of Computing    credit:3
course id: 1008 Name: Bangla      credit:2
course id: 1001 Name: Database    credit:3
course id: 1003 Name: Data structure    credit:3
course id: 1005 Name: Competitive programming    credit:1
course id: 1007 Name: Digital Logic    credit:3
course id: 1009 Name: Accounting    credit:2
```

Statement processed.

0.02 seconds

4) Display the information of Advisor that is defined by user.

Ans:

```
DECLARE
```

```
aid advisor.a_id%type;
```

```
aname advisor.a_name%type;
```

```
aemail advisor.a_email%type;
```

```
acontact advisor.a_contact%type;
```

```
BEGIN
```

```
select a_id,a_name,a_email,a_contact INTO
```

```
aid,aname,aemail,acontact
```

```
from advisor
```

```
where a_id = (:a_id);
```

```
dbms_output.put_line('advisor ID: '||aid||' '||'advisor name: '||aname||' '||'advisor  
email: '||aemail||'
```

```
'||'advisor contact: '||acontact);
```

```
END;
```

```
advisor ID:  A001 advisor name:  Monjurul islam advisor email:  monjurulislam@gmail.com  
advisor contact:  01819909322
```

```
Statement processed.
```

```
0.00 seconds
```

5) Display the information of Teacher by taking input from user.

Ans:

```
DECLARE
```

```
tid teacher.t_id%type;
```

```
tname teacher.t_name%type;
```

```
temail teacher.t_email%type;
taddress teacher.t_address%type;
BEGIN
select t_id,t_name,t_email,t_address INTO
tid,tname,temail,taddress
from teacher
where t_id = (:t_id);
dbms_output.put_line('Teacher ID:  '||tid);
dbms_output.put_line('Teacher name:  '||Tname);
dbms_output.put_line('Teacher email:  '||Temail);
dbms_output.put_line('Teacher address: '||taddress);
END;
```

```
Teacher ID:      T0005
Teacher name:    Shaiyan Ameen
Teacher email:   shaiyanameen@gmail.com
Teacher address: muradpur,chattogram
```

Statement processed.

0.02 seconds

THE END