Proctorial and personal counselling management system

Abstract

Proctorial and personal counselling system is a system which manages the details regarding the proctors allocated to studends and students who require personal counselling are identified and allocated with a personal counseller. It is a student level data connection system. This Proctorial and personal counselling system has a major role in academics. This system helps students to know their position better and it helps to enhance their skills and perform well in their academics. To ensure quality teaching and learning process it is important to have interaction sessions between students and faculty and to know the problems faced by students so that the faculty can help and

guide them.With this view and to resolve generic problems which students face in their regular academics, this project helps in maintaining this data and monitoring the students.

Requirement Analysis

List of tables:

- Proctor
- givesInfoTo
- personalCounseller
- advice
- students
- monitors
- department
- has

List of attributes and their domain types:

Proctor:

pid Number(10)

pname varchar2(15)

experience Number(2)

age Number(2)

givesInfoTo:

pid Number(10)

cid Number (10)

personalCounseller:

cid Number(10)

cname varchar2 (15)

experience Number(2)

age Number(2)

advice:

cid Number(10)

sid Number(10)

students:

sid Number(10)

sname varchar2(15)

dob varchar2(15)

grade Number(3,1)

gender varchar2(5)

monitors:

pid Number(10)

sid Number(10)

department:

did Number(10)

dname varchar2(20)

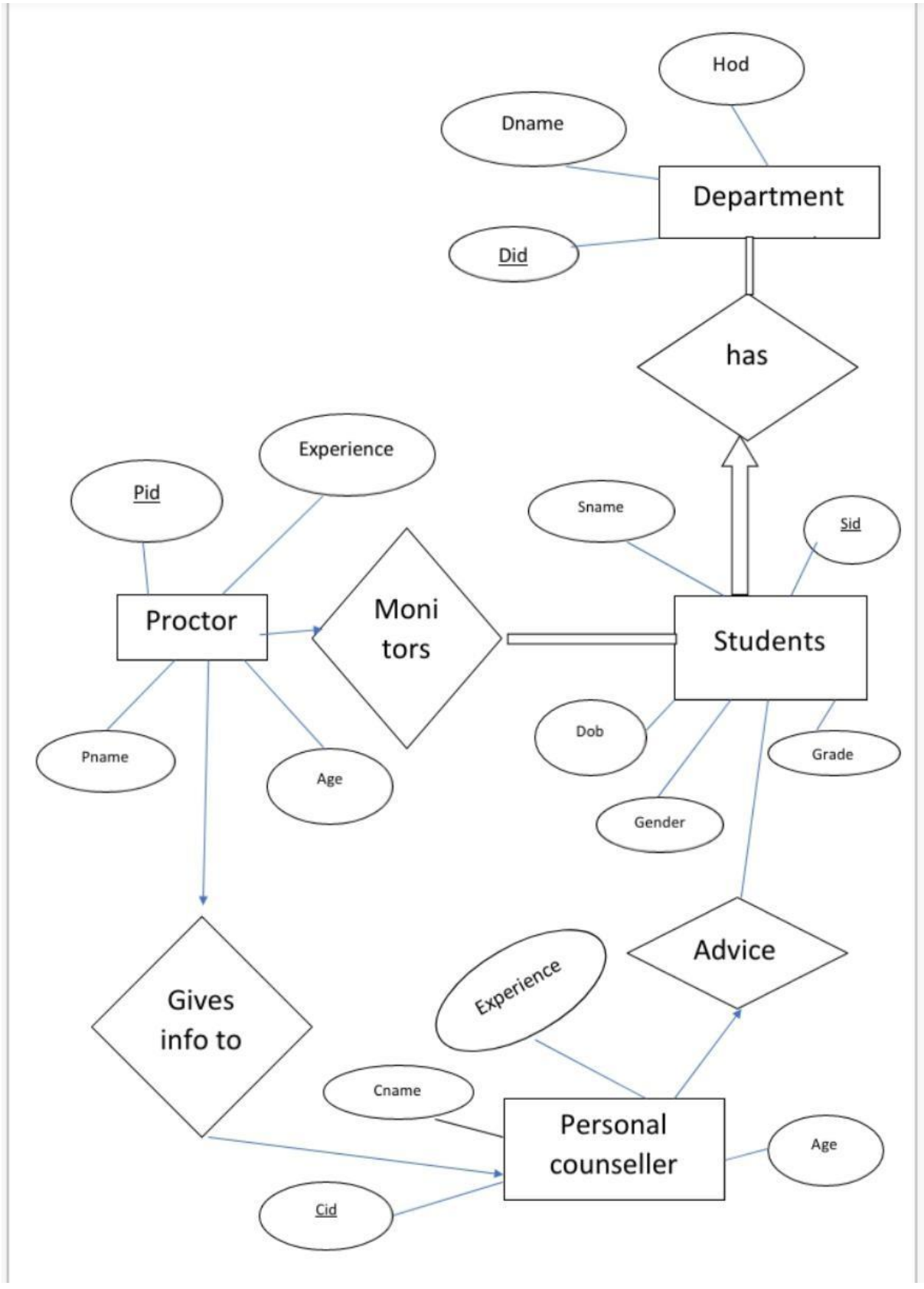
hod varchar2(20)

has:

did Number(10)

sid Number(10)

ER diagram


Hod
Dname
Department
Did
has
Experience
Pid
Sname
Sid
Proctor
Moni
tors
Students
Pname
Age
Dob
Grade
Gender
Advice
Gives
info to
Experience
Cname
Personal
counseller
Age
Cid

Mapping Cardinalities and Participation Constraints:

One proctor can monitor many students, but one student can have only one proctor. So it is one to many mapping.

All students must have a Proctor, so students are participating completely,it is complete participation.

One proctor gives information to only one personal counseller. Therefore it is one to one mapping.

One personal counseller can advice many students, but one student has only one personal counseller. Hence it is one to many mapping.Not all students need a personal counseller only students with less grade will have a personal counseller. So it is partial participation.

A department can have many students,but one student belongs to only one department. Therefore it is a many to one mapping.

Every student must belong to a department and also every department should have a student. So both are participating totally.

DDL Commands

SQL> create table proctor(pid Number(10) primary key,

Pname varchar2(15)

experience Number(2),

age Number(2)

);

Table created.

SQL> create table givesInfoTo(pid Number(10),

cid Number (10),

foreign key (pid) references proctor,

foreign key (cid) references personalCounseller,

primarykey(pid,cid));

Table created.

SQL> create table personalCounseller(cid Number(10) primary key,

cnamevarchar2(15),

```
experience Number(2),
age Number(2));
Table created.
SQL> create table advice(sid Number(10),
cid Number (10),
foreign key (sid) references students,
foreign key (cid) references personalCounseller,
primarykey(sid,cid));
Table created.
SQL> create table students(sid Number(10) primary key,
sname varchar2(15 ),
dob varchar2(15),
grade Number(3,1),
gender varchar2(5));
Table created.
SQL> create table monitors(sid Number(10),
pid Number (10),
foreign key (sid) references students,
foreign key (pid) references proctor,
primarykey(sid,pid));
Table created.
```

SQL> create table department(did Number(10) primary key,

dname varchar2(20)

hod varchar2(20));

Table created.

SQL> create table has(sid Number(10),

did Number (10),

foreign key (sid) references students,

foreign key (did) references department,primarykey(sid,cid));

Table created.

```
SQL> desc proctor;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 PID                                       NOT NULL NUMBER(10)
 PNAME                                              VARCHAR2(15)
 EXPERIENCE                                         NUMBER(2)
 AGE                                                NUMBER(2)

SQL> desc givesInfoTo;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 PID                                       NOT NULL NUMBER(10)
 CID                                       NOT NULL NUMBER(10)

SQL> desc personalCounseller;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 CID                                       NOT NULL NUMBER(10)
 CNAME                                              VARCHAR2(20)
 EXPERIENCE                                         NUMBER(2)
 AGE                                                NUMBER(2)
```

```
SQL> desc advice;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 CID                                       NOT NULL NUMBER(10)
 SID                                       NOT NULL NUMBER(10)


SQL> desc students;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 SID                                       NOT NULL NUMBER(10)
 SNAME                                              VARCHAR2(15)
 DOB                                                VARCHAR2(15)
 GRADE                                              NUMBER(3,1)
 GENDER                                             VARCHAR2(5)

SQL> desc monitors;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 PID                                       NOT NULL NUMBER(10)
 SID                                       NOT NULL NUMBER(10)



SQL> desc department;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 DID                                       NOT NULL NUMBER(10)
 DNAME                                              VARCHAR2(20)
 HOD                                                VARCHAR2(20)

SQL> desc has;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
---------
 DID                                       NOT NULL NUMBER(10)
 SID                                       NOT NULL NUMBER(10)
```

DML Commands

```
SQL> insert into proctor values(&pid,'&pname',&experience, &age);
Enter value for pid: 1
Enter value for pname: Deepa
Enter value for experience: 8
Enter value for age: 30
old   1: insert into proctor values(&pid,'&pname',&experience,&age)
new   1: insert into proctor values(1,Deepa,8,30)
SQL> /
5 rows created

SQL> insert into givesInfoTo values(&pid, &cid);
Enter value for pid: 1
Enter value for cid: 101
old   1: insert into proctor values(&pid,&cid)
new   1: insert into proctor values(1,101)
SQL> /
5 rows created
SQL> insert into personalCounseller values(&cid,'&cname',&experience, &age);
Enter value for cid: 101
Enter value for cname: Laxmi
Enter value for experience:20
Enter value for age: 45
old   1: insert into proctor values(&cid,'&cname',&experience,&age)
new   1: insert into proctor values(101,Laxmi,20,45)
SQL> /
5 rows created
SQL> insert into advice values(&sid, &cid);
Enter value for sid: 14
Enter value for cid: 102
old   1: insert into proctor values(&sid,&cid)
new   1: insert into proctor values(14,102)
SQL> /
5 rows created
```

```
SQL> insert into students values(&sid,’&sname',’&dob',&grade, ‘&gender’);
Enter value for sid: 10
Enter value for sname: Ruhi
Enter value for dob: 01-Apr-2001
Enter value for grade: 9.3
Enter value for gender:f
old   1: insert into proctor values(&pid,'&pname',&experience,&age)
new   1: insert into proctor values(1,Deepa,8,30)
SQL> /
5 rows created

SQL> insert into givesInfoTo values(&pid, &sid);
Enter value for pid: 1
Enter value for sid: 101
old   1: insert into proctor values(&pid,&sid)
new   1: insert into proctor values(1,12)
SQL> /
5 rows created

SQL> insert into department values(&did,'&dname',’&hod');
Enter value for did: 737
Enter value for dname: It
Enter value for hod: K.Ram Mohan
old   1: insert into proctor values(&did,'&dname',’&hod ‘)
new   1: insert into proctor values(737,It,K.Ram Mohan
SQL> /
5 rows created

SQL> insert into has values(&did, &sid);
Enter value for did: 737
Enter value for sid: 10
old   1: insert into proctor values(&did,&sid)
new   1: insert into proctor values(737,10)
SQL> /
5 rows created
```

```
SQL> select * from proctor;

       PID PNAME           EXPERIENCE        AGE
---------- --------------- ---------- ----------
         1 Deepa                    8         30
         2 Karthik                  7         32
         3 Soundarya               10         46
         4 Sravya                   6         29
         5 Anand                   12         49

SQL> select * from givesInfoTo;

       PID        CID
---------- ----------
         1        101
         2        102
         3        103
         4        104
         5        105

SQL> select * from personalCounseller;

       CID CNAME                EXPERIENCE        AGE
---------- -------------------- ---------- ----------
       101 Laxmi                        45         20
       102 Ishitha                      25         10
       103 Raman                        30         12
       104 Aditya                       28         10
       105 Arun                         32         13

SQL> select * from advice;

       CID        SID
---------- ----------
       102         14
       103         18
       101         19

SQL> select * from students;

       SID SNAME           DOB                 GRADE GENDE
---------- --------------- --------------- ---------- -----
        10 Ruhi            01-Apr-2001            9.3 f
        12 Pihu            12-Mar-2000            8.6 f
        14 Siddarth        05-Feb-2000            7.3 m
        18 Manik           17-Mar-2000            6.5 m
        19 Nandini         09-Aug-2000            6.3 f
        11 Druv            22-May-2001            8.1 m


6 rows selected.
```

```
SQL> select * from monitors;

       PID        SID
---------- ----------
         1         12
         2         18
         3         10
         4         11
         5         19
         3         14

6 rows selected.

SQL> select * from department;

       DID DNAME                HOD
---------- -------------------- --------------------
       737 It                   K.Ram Mohan
       733 Cse                  T.Adilaxmi
       735 Ece                  E.Sreenivasa Rao
       736 Mechanical           T.Ram Mohan
       732 Civil                B.Sridhar
       734 Eee                  M.Chakravathy

6 rows selected.

SQL> select * from has;

       DID        SID
---------- ----------
       737         10
       733         18
       735         11
       736         14
       732         19
       734         12

6 rows selected.
```