Predicting stress levels in students

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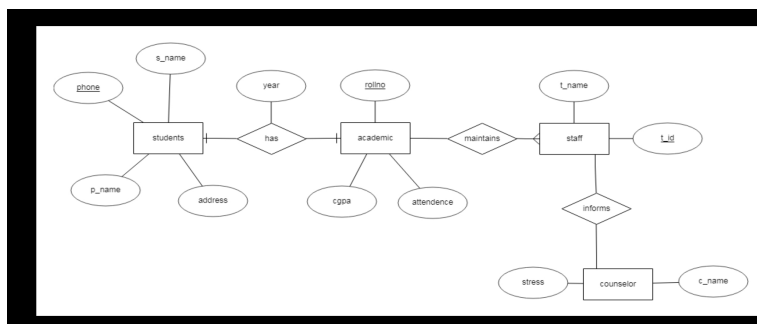
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Abstract:

Predicting Stress levels in students.

Generally there would be a lot of stress in students due to various reasons. Due to stress there wolud be a lot of health issues, it would also affect general health. It also leads to depression. This is a project that will predict the stress levels among the students. The stress levels is predicted by calculating the attendance and cgpa. If the marks obtained are less when compared to lower class marks and if the attendence is less then a student is said to have stress and if he/she scores good marks and have attendence then that student is said to be free from stress.

Requirement Analysis:

Tables Required:

- Students
- Academic_status
- Has
- Staff
- Counselor

Erdiagram:

Cardinality constraints:

In this er diagram in students table phone is primary key, in academic table rollno is primary key , in the staff table t_id is primary key .

Here students and academic is one to one because each student can have only one academic status and academic and staff is many to one because many students academic status is operated by single teacher.

Ddl commands

SQL> create table students(s_name char(20),p_name char(20),address varchar(20),

  2 phone number(10) primary key);

Table created.

SQL> desc students;

Name	Null?	Type
S_NAME		CHAR(20)
P_NAME		CHAR(20)
ADDRESS		VARCHAR2(20)
PHONE	NOT NULL	NUMBER(10)

SQL> create table academic(rollno varchar2(20) primary key,attendence varchar2(

20),cgpa varchar(4));

Table created.

SQL> desc academic;

Name	Null?	Type

```
 ROLLNO                        NOT NULL VARCHAR2(20)

 ATTENDENCE                              VARCHAR2(20)

 CGPA                            VARCHAR2(4)
```

SQL> create table staff(t_name char(20),t_id varchar(10) primary key);

Table created.

SQL> desc staff;
```
 Name                      Null?   Type

 ---------------------------------- ------- -----------------------


 T_NAME                         CHAR(20)

 T_ID                     NOT NULL VARCHAR2(10)
```

SQL> create table counselor(stress char(10),c_name char(20));

Table created.

SQL> desc counselor;
```
 Name                    Null?   Type

 ---------------------------------- ------- -----------------------


 STRESS                        CHAR(10)
```

C_NAME   CHAR(20)

SQL> alter table has add(rollno varchar(20), foreign key(rollno) references acad

emic(rollno),phone number(10), foreign key(phone) references students(phone));

Table altered.

SQL> desc has;

Name   Null?   Type

---------------------------------- ------- ------------------------

YEAR   NUMBER(4)

ROLLNO   VARCHAR2(20)

PHONE   NUMBER(10)

Dml commands

SQL> insert into students values('&s_name','&p_name','&address',&phone);

Enter value for s_name: vishu

Enter value for p_name: sailaja

Enter value for address: bdl

Enter value for phone: 9435632457

old   1: insert into students values('&s_name','&p_name','&address',&phone)

new   1: insert into students values('vishu','sailaja','bdl',9435632457)

1 row created.

SQL> /

Enter value for s_name: kiran

Enter value for p_name: koteshwar

Enter value for address: bhanur

Enter value for phone: 8341574689

old   1: insert into students values('&s_name','&p_name','&address',&phone)

new   1: insert into students values('kiran','koteshwar','bhanur',8341574689)

1 row created.

SQL> /

Enter value for s_name: dhoni

Enter value for p_name: pandey

Enter value for address: ranchi

Enter value for phone: 8009664743

old   1: insert into students values('&s_name','&p_name','&address',&phone)

new   1: insert into students values('dhoni','pandey','ranchi',8009664743)

1 row created.

SQL> /

Enter value for s_name: raina

Enter value for p_name: suresh

Enter value for address: uttarpradesh

Enter value for phone: 9780655443

old   1: insert into students values('&s_name','&p_name','&address',&phone)

new   1: insert into students values('raina','suresh','uttarpradesh',9780655443)

1 row created.

SQL> /

Enter value for s_name: bravo

Enter value for p_name: dwane

Enter value for address: capetown

Enter value for phone: 8009967543

old   1: insert into students values('&s_name','&p_name','&address',&phone)

new   1: insert into students values('bravo','dwane','capetown',8009967543)

1 row created.

SQL> select *from students;

S_NAME	P_NAME	ADDRESS	PHONE
vishu	sailaja	bdl	9435632457
kiran	koteshwar	bhanur	8341574689

dhoni	pandey	ranchi	8009664743
raina	suresh	uttarpradesh	9780655443
bravo	dwane	capetown	8009967543

SQL> insert into academic values(&rollno,&attendence,&cgpa);

Enter value for rollno: 160218737077

Enter value for attendence: 89

Enter value for cgpa: 7

old   1: insert into academic values(&rollno,&attendence,&cgpa)

new   1: insert into academic values(160218737077,89,7)

1 row created.

SQL> /

Enter value for rollno: 160218737076

Enter value for attendence: 60

Enter value for cgpa: 6

old   1: insert into academic values(&rollno,&attendence,&cgpa)

new   1: insert into academic values(160218737076,60,6)

1 row created.

SQL> /

Enter value for rollno: 160218737078

Enter value for attendence: 65

Enter value for cgpa: 7

old   1: insert into academic values(&rollno,&attendence,&cgpa)

new   1: insert into academic values(160218737078,65,7)

1 row created.

SQL> /

Enter value for rollno: 160218737079

Enter value for attendence: 30

Enter value for cgpa: 6

old   1: insert into academic values(&rollno,&attendence,&cgpa)

new   1: insert into academic values(160218737079,30,6)

1 row created.

SQL> /

Enter value for rollno: 160218737077

Enter value for attendence: 75

Enter value for cgpa: 8

old   1: insert into academic values(&rollno,&attendence,&cgpa)

new   1: insert into academic values(160218737077,75,8)

insert into academic values(160218737077,75,8)

*

ERROR at line 1:

ORA-00001: unique constraint (SYSTEM.SYS_C006997) violated

SQL> /

Enter value for rollno: 160218737111

Enter value for attendence: 90

Enter value for cgpa: 9

old   1: insert into academic values(&rollno,&attendence,&cgpa)

new   1: insert into academic values(160218737111,90,9)

1 row created.

SQL> select *from academic;

ROLLNO   ATTENDENCE   CGPA

------------------ ------------------- ----

160218737077   89   7

160218737076   60   6

160218737078   65   7

160218737079   30   6

160218737111   90   9

SQL> insert into staff values('&t_name',&t_id);

Enter value for t_name: watson

Enter value for t_id: 101

old   1: insert into staff values('&t_name',&t_id)

new   1: insert into staff values('watson',101)

1 row created.

SQL> /

Enter value for t_name: rahane

Enter value for t_id: 102

old   1: insert into staff values('&t_name',&t_id)

new   1: insert into staff values('rahane',102)

1 row created.

SQL> /

Enter value for t_name: smith

Enter value for t_id: 103

old   1: insert into staff values('&t_name',&t_id)

new   1: insert into staff values('smith',103)

1 row created.

SQL> /

Enter value for t_name: williamson

Enter value for t_id: 104

old   1: insert into staff values('&t_name',&t_id)

new   1: insert into staff values('williamson',104)

1 row created.

SQL> /

Enter value for t_name: warner

Enter value for t_id: 105

old   1: insert into staff values('&t_name',&t_id)

new   1: insert into staff values('warner',105)

1 row created.

SQL> select *from staff;

T_NAME   T_ID

------------------ ---------

watson   101

rahane   102

smith   103

williamson   104

warner   105

SQL> insert into has values(&year,'&rollno',&phone);

Enter value for year: 1

Enter value for rollno: 160218737077

Enter value for phone: 8341574689

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(1,'160218737077',8341574689)

1 row created.

SQL> /

Enter value for year: 1

Enter value for rollno: 160218737111

Enter value for phone: 98

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(1,'160218737111',98)

insert into has values(1,'160218737111',98)

*

ERROR at line 1:

ORA-02291: integrity constraint (SYSTEM.SYS_C007000) violated - parent key n

found

SQL> /

Enter value for year: 1

Enter value for rollno: 160218737111

Enter value for phone: 8009664743

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(1,'160218737111',8009664743)

1 row created.

SQL> /

Enter value for year: 160218737076

Enter value for rollno: 9435632457

Enter value for phone: k

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(160218737076,'9435632457',k)

insert into has values(160218737076,'9435632457',k)

                                    *

ERROR at line 1:

ORA-00984: column not allowed here

SQL> /

Enter value for year: 1

Enter value for rollno: 160218737077

Enter value for phone: 9435632457

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(1,'160218737077',9435632457)

1 row created.

SQL> /

Enter value for year: 1

Enter value for rollno: 160218737078

Enter value for phone: 9780655443

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(1,'160218737078',9780655443)

1 row created.

SQL> /

Enter value for year: 160218737079

Enter value for rollno: 8008867543

Enter value for phone: k

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(160218737079,'8008867543',k)

insert into has values(160218737079,'8008867543',k)

                                    *

ERROR at line 1:

ORA-00984: column not allowed here

SQL> /

Enter value for year: 1

Enter value for rollno: 160218737079

Enter value for phone: 8009967543

old   1: insert into has values(&year,'&rollno',&phone)

new   1: insert into has values(1,'160218737079',8009967543)

1 row created.

SQL> select *from has;


```
    YEAR ROLLNO            PHONE
---------- ------------------- ----------
         1 160218737077     8341574689
         1 160218737111     8009664743
         1 160218737077     9435632457
         1 160218737078     9780655443
         1 160218737079     8009967543
```