Industrial Training

Project Report

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CSE 4th year Sec B

Roll - 148

College Information System

ER DIAGRAM

Follows

Updates

attendance

Has

Teaches

Studies

t\_routine

Taught\_By

subject

student

Follows

teacher

routine

Table Schema

**student**

Name Null? Type

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

SID NOT NULL VARCHAR2(20)

SNAME VARCHAR2(20)

DEPT VARCHAR2(20)

YEAR VARCHAR2(20)

SEC VARCHAR2(20)

**teacher**

Name Null? Type

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

TID NOT NULL VARCHAR2(20)

TNAME VARCHAR2(20)

DEPT VARCHAR2(20)

**routine**

Name Null? Type

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

DEPT NOT NULL VARCHAR2(20)

DAY NOT NULL VARCHAR2(20)

YEAR NOT NULL VARCHAR2(20)

SEC NOT NULL VARCHAR2(20)

P1 VARCHAR2(50)

P2 VARCHAR2(50)

P3 VARCHAR2(50)

P4 VARCHAR2(50)

P5 VARCHAR2(50)

P6 VARCHAR2(50)

**subject**

Name Null? Type

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

SUBCODE NOT NULL VARCHAR2(20)

DEPT VARCHAR2(20)

YEAR VARCHAR2(20)

SUBNAME VARCHAR2(20)

**attendance**

Name Null? Type

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

A\_DATE NOT NULL VARCHAR2(20)

SUBCODE NOT NULL VARCHAR2(20)

S\_ID NOT NULL VARCHAR2(20)

ATTEND VARCHAR2(20)

**t\_routine**

Name Null? Type

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

TID NOT NULL VARCHAR2(20)

DAY NOT NULL VARCHAR2(20)

P1 VARCHAR2(20)

P2 VARCHAR2(20)

P3 VARCHAR2(20)

P4 VARCHAR2(20)

P5 VARCHAR2(20)

P6 VARCHAR2(20)

Table Scripts With Constraints

**student**

create table student(

sid varchar2(20) primary key,

sname varchar2(20),

dept varchar2(20),

year varchar2(20),

sec varchar2(20));

**subject**

create table subject(

subcode varchar2(20) primary key,

dept varchar2(20),

year varchar2(20),

subname varchar2(20));

**teacher**

create table teacher(

tid varchar2(20) primary key,

tname varchar2(20),

dept varchar2(20));

**routine**

create table routine(

dept varchar2(20) NOT NULL,

day varchar2(20) NOT NULL,

year varchar2(20) NOT NULL,

sec varchar2(20) NOT NULL,

p1 varchar2(50),

p2 varchar2(50),

p3 varchar2(50),

p4 varchar2(50),

p5 varchar2(50),

p6 varchar2(50),

primary key(dept,day,year,sec));

**attendance**

create table attendance(

a\_date varchar2(20) NOT NULL,

subcode varchar2(20),

s\_id varchar2(20),

attend varchar2(20),

foreign key(s\_id) references student(sid),

foreign key(subcode) references subject(subcode),

primary key(a\_date,subcode,s\_id));

**t\_routine**

create table t\_routine(

tid varchar2(20) NOT NULL,

day varchar2(20) NOT NULL,

p1 varchar2(20),

p2 varchar2(20),

p3 varchar2(20),

p4 varchar2(20),

p5 varchar2(20),

p6 varchar2(20),

foreign key(tid) references teacher(tid),

primary key(tid,day));

Stored Procedures

**Retrieve routine given dept , year and section**

create or replace procedure routine\_s(x in routine.dept%type,y in routine.year%type,z in routine.sec%type,res out sys\_refcursor)

as

begin

open res for

select day,p1 "9.20am-10.20am",p2 "10.20am-11.20am",p3 "11.20am-12.20am",p4"1.00pm-2.00pm",p5 " 2.00pm-3.00pm",p6 "3.00pm-4.00pm" from routine where dept=x and year=y and sec=z;

end;

/

**Retrieve teacher routine given teacher name**

create or replace procedure routine\_t(x in teacher.tname%type,res out sys\_refcursor)

as

begin

open res for

select day,p1,p2,p3,p4,p5,p6 from t\_routine where tid in(select tid from teacher where tname=x);

end;

/

**Retrieve attendance of all students given dept, year, sec and subjectcode**

create or replace procedure attend\_s(w in student.dept%type,x in student.year%type,y in student.sec%type,z in attendance.subcode%type,res out sys\_refcursor)

as

begin

open res for

select s\_id,count(attend) "attendance" from attendance a inner join student s on a.s\_id=s.sid where s\_id in(select sid from student where dept=w and year=x and sec=y) and subcode=z and attend='p' group by a.s\_id;

end;

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