

**University of Asia Pacific**

**COURSE CODE**: CSE-212

**COURSE TITLE:** Database

**Name of Project**: Student attendance management system

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**SUBMITTED TO**

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Project Scenario

A university offers few courses to all students under each department. Each student has to register to take any course. Each course has a course code, title, credit, semester and department. For each course there is assigned a faculty to teach that course. It’s not compulsory to assign all faculties to take the course but all the courses must be assigned to at least one faculty. Each course faculty has a faculty id, faculty name, department name. For each student there will be a student id, name, course name, semester and year. The purpose is to generate the desired reports automatically at the end of the session or in the between of the session as require.

**Entities and their attributes:**

* **Student:** s\_id, s\_name, semester, year.
* **Course\_regi:** s\_id, c\_Code.
* **Course:** c\_code, tittle, credit, department.
* **Faculty:** f\_id, f\_name, department.
* **Faculty assigned:** f\_code,c\_code.
* **Attendance:** s\_id, c\_code, date, status.

ER-Diagram

**student**

**course\_reg**

**faculty assigned**

**course**

**is assigned**

**studAtten**

**faculty**

**attendance**

Schema Diagram

student

s\_id

s\_name

semester

year

s\_id

c\_code

course\_regi

s\_id

c\_code

date

status

attendance

course

c\_code

title

credit

department

f\_id

f\_name

department

faculty

f\_assigned

f\_id

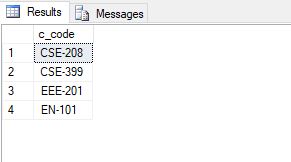
c\_code

Queries and Output

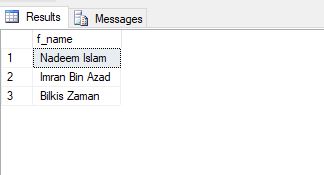
1. select c\_code from f\_assigned\_where f\_id=892



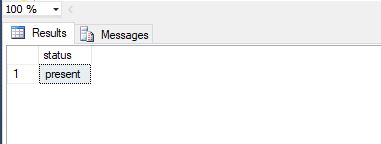
1. select c\_code from course\_regi where s\_id=101



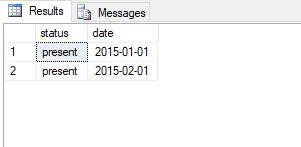
3. select f\_name from faculty where department LIKE 'CS%'



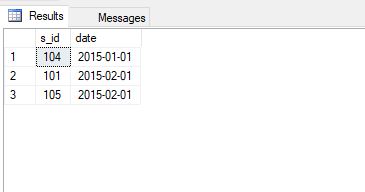
4.select status from attendance where date='2019-01-01' and s\_id=101



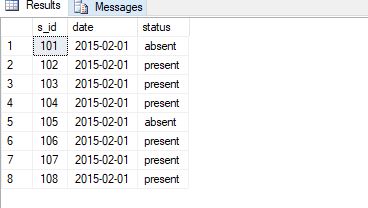
5.select status,date from attendance where s\_id=108



6. select s\_id,date from attendance where status='absent'

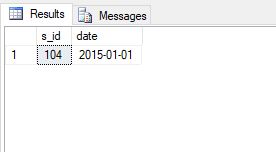


7. select s\_id, date, status from attendance where c\_code= 'EN-101'



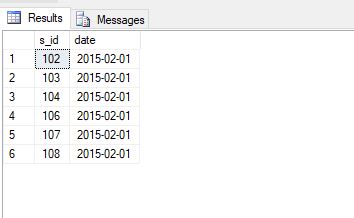
8. select s\_id, date from attendance

where c\_code='CSE-208' and status='absent'



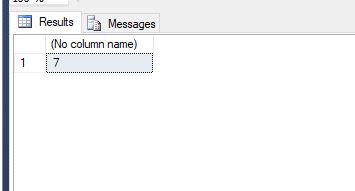
9. select s\_id, date from attendance

where status='present' and c\_code='EN-101'



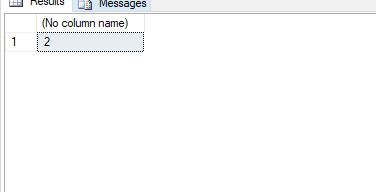
10. select count (s\_id)\_from attendance

where status = 'present' and c\_code='CSE-208'



11. select count (s\_id)\_from attendance

where status = 'absent' and c\_code='EN-101'



Appendix

create database StudentAttend;

create table student(

s\_id int,

s\_name varchar(20),

semester varchar(20),

year varchar(20),

primary key(s\_id)

)

insert into student

values(101 ,'Jam', 'Spring','2018'),

(102,'Sakin' ,'Spring','2018'),

(103,'Shakhawat' ,'Spring','2018'),

(104,'Zahid' ,'Fall','2019'),

(105,'Mujahid' ,'Fall','2018'),

(106,'Dipto' ,'Spring','2018'),

(107,'Pranto' ,'Spring','2018'),

(108,'Dipu' ,'Fall','2018')

create table faculty(

f\_id int,

f\_name varchar(20),

department varchar(20),

primary key(f\_id)

)

insert into faculty

values(891,'Nadeem Islam','CSE'),

(892,'Imran Bin Azad','CSE'),

(8103,'Maishaa Srejuti','Basic Science'),

(893,'Bilkis Zaman','CSE'),

(894,'Babul','English'),

(895,'Kairul Alam','EEE')

create table course(

c\_code varchar(20),

title varchar(50),

department varchar(20),

credit numeric(2,0),

primary key(c\_code)

)

insert into course

values('EEE-101','Intro.to EEE','EEE',4),

('CSE-301','Intro.to Computer Science','CSE',4),

('CSE-399','Database','CSE',4),

('EN-101','Spoken English','English',3),

('CSE-208','Algorithm','CSE',4),

('EEE-201','Robotics','EEE',3)

create table f\_assigned(

f\_id int,

c\_code varchar(20),

primary key(f\_id,c\_code),

foreign key(f\_id) references faculty,

foreign key(c\_code) references course,

)

insert into f\_assigned

values(891,'CSE-399'),

(894,'EN-101'),

(892,'CSE-301'),

(892,'CSE-208'),

(895,'EEE-101'),

(895,'EEE-201')

create table course\_regi(

s\_id int,

c\_code varchar(20),

primary key(s\_id,c\_code),

foreign key(s\_id) references student,

foreign key(c\_code) references course

)

insert into course\_regi

values(101,'CSE-399'),

(104,'CSE-399'),

(101,'EN-101'),

(105,'EN-101'),

(106,'EN-101'),

(107,'EN-101'),

(102,'CSE-208'),

(103,'CSE-208'),

(101,'CSE-208'),

(101,'EEE-201'),

(106,'EEE-201'),

(107,'EEE-201'),

(108,'CSE-399')

create table attendance(

s\_id int,

c\_code varchar(20),

date date,

status varchar(50),

primary key(c\_code,s\_id,date),

foreign key(s\_id) references student,

foreign key(c\_code) references course

)

insert into attendance

values(101,'CSE-208','1/1/2019','present'),

(102,'CSE-208','1/1/2015','present'),

(103,'CSE-208','1/1/2015','present'),

(104,'CSE-208','1/1/2015','absent'),

(105,'CSE-208','1/1/2015','present'),

(106,'CSE-208','1/1/2015','present'),

(107,'CSE-208','1/1/2015','present'),

(108,'CSE-208','1/1/2015','present'),

(101,'EN-101','2/1/2015','absent'),

(102,'EN-101','2/1/2015','present'),

(103,'EN-101','2/1/2015','present'),

(104,'EN-101','2/1/2015','present'),

(105,'EN-101','2/1/2015','absent'),

(106,'EN-101','2/1/2015','present'),

(107,'EN-101','2/1/2015','present'),

(108,'EN-101','2/1/2015','present')