Premier University Chittagong

Course Title : **Database Management System**

Course Code : **CSE 237**

Department : **Computer Science and Engineering**

Assignment No : **01**

Assignment Name : **4th semester mid Term (DBMS Mid Assignment)**

Date of Submission : **22/09/2020**

Marks

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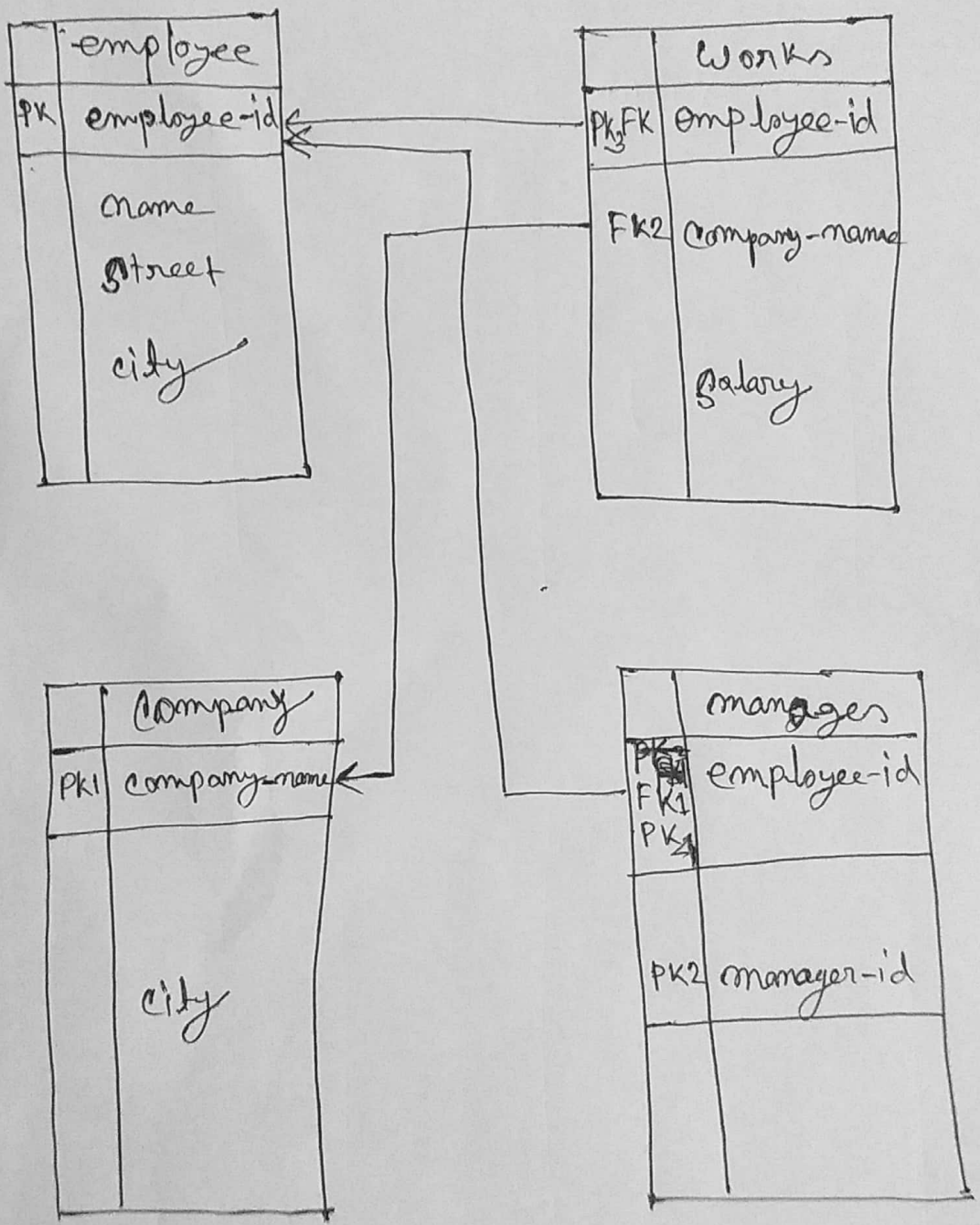
Sec : **C4A**

Batch : **27th**

Answer to the question no: 1



Answer to the question no: 2

~~Natural~~

Natural join:

LoanNo.	Branch	Amount	CustomerName

Query: SELECT *
FROM loan
NATURAL JOIN borrower;

left outer join:

Query: SELECT * FROM loan
LEFT OUTER JOIN borrower
ON loan.LoanNo. = borrower.LoanNo.

LoanNo.	Branch	Amount	CustomerName
L-100	G.E.C	2000	NULL
L-200	Muradpur	3000	NULL
L-300	Wasa	5000	NULL
L-400	Agrabad	6000	NULL
L-500	Laldighi	7000	NULL

right outer join:

Query:

```
SELECT *
FROM loan
RIGHT OUTER JOIN borrower
ON loan.LoanNo. = borrower.LoanNo.
```

LoanNo.	Branch	Amount	CustomerName
L-101	NULL	NULL	ABC
L-201	NULL	NULL	DEF
L-301	NULL	NULL	GHI
L-401	NULL	NULL	JKL
L-501	NULL	NULL	MNO

full ~~out~~ outer join

Query: SELECT * FROM loan

~~LEF~~ FULL ~~OU~~ OUTER JOIN borrower

ON loan.LoanNo. = borrower.LoanNo.

OR

SELECT * FROM loan LEFT OUTER

JOIN borrower ON loan.LoanNo.

= borrower.LoanNo.

UNION

SELECT * FROM loan RIGHT

OUTER JOIN borrower ON

loan.LoanNo. = borrower.LoanNo.

LoanNo.	Branch	Amount	CustomerName
L-100	G.E.C.	2000	NULL
L-200	Muradpur	3000	NULL
L-300	Uasa	5000	NULL
L-400	Agrabad	6000	NULL
L-500	Laldighi	7000	NULL
L-101	NULL	NULL	ABC
L-201	NULL	NULL	DEF
L-301	NULL	NULL	GHI
L-401	NULL	NULL	JKL
L-501	NULL	NULL	MNO

Answer to the question no: 3 (i)

* Course (course_id, title, credit)

```
Create table Course (
    course_id    ~~int(11)~~ varchar(50),
    title        varchar(50) not null,
    credit       ~~varchar~~ numeric(8,2),
    primary key (course_id));
```

* Student (std_id, name, address, department)

```
Create table Student (
    Std_id       ~~int(11)~~ int(10),
    cname        varchar(50) not null,
    address      varchar(50),
    department   varchar(50),
    primary key (Std_id));
```

* Enroll (std_id, course_id, session)

```
create table Enroll (
    std_id      int(20) not null,
    course_id   varchar(50),
    session     varchar(50),
primary key (std_id, course_id, session),
foreign key (std_id) references Student,
foreign key (course_id) references course)
```

```
foreign key (std_id) references
Student (std_id), foreign key (course_id)
references course (course_id));
```

Answer to the question no: 3(ii)

* Course(course_id, title, credit)

~~Query:~~

Query:

INSERT INTO 'Course' ('course_id', 'title', 'credit') ~~Valu~~ ~~VALUES ('CSE-457', 'Machine learning',~~

VALUES ('CSE-457', 'Machine Learning', '3'), ('CSE-211', 'Object Oriented programming', '3'),

~~('CSE-103', 'Discrete Mathematics', '2');~~

('EEE-101', 'signal system', '4');

* Student (Std_id, name, address, department)

Query:

INSERT INTO 'Student' ('Std_id',
'name', 'address', 'department')
VALUES ('1402710200~~44~~', 'Joyanta Dutta',
'Ghatbarthadbeg', 'CSE'),
('1502810200~~354~~', 'Md. Abdulla ~~Joynal Abedin~~',
'Andorkilla', 'CSE'),
~~('1423102004', 'Md. Abdulla', 'Dewan~~
~~Bazar', 'CSE');~~

('1402310200~~4~~', 'Joynal Abedin',
'Dewanbazar', 'EEE');

* Enroll(std_id , course_id, session)

INSERT INTO 'Enroll' ('std_id',
'course_id', 'session')

VALUES ('1402710200~~740~~', 'CSE-457',
'spring 2020'),
('1502810200 ~~854~~', 'CSE-211', 'spring2021'),
~~('1423102001', 'CSE 103', 'spring2022');~~
('1423102001', 'EEE-101', 'spring 2022');

Answer to the question no: 3 (iii)

```
SELECT course_id
FROM Course
Where credit BETWEEN 1 AND 3;
```

Answer to the question no: 3 (iv)

```
SELECT name From ~~st~~ student
~~tch~~ Where department = 'CSE' and
    name LIKE 'M%';
```

Ans

Answer to the question no: 3(V)

```
SELECT Course.title
FROM Course, Enroll
WHERE Enroll.session = 'Spring 2020';
WHERE Course.course_id = Enroll.course_id
and Enroll.session = 'Spring 2020';
```

Answer to the question no: 3(VI)

```
SELECT Count(course_id)
SELECT Count(Enroll.course_id)
FROM Enroll, Student
WHERE student.department = 'CSE' and
      Enroll.session = 'Spring 2020'
WHERE Student.std_id = Enroll.std_id
and Student.department = 'CSE' and
Enroll.session = 'Spring 2020';
```

Answer to the question no: 3(vii)

Query:

```
SELECT COUNT(Student.Std_id),
Student.department FROM Student,
Enroll ~~WHERE~~
WHERE Student.Std_id = Enroll.Std_id
AND Enroll.session = 'Spring 2020' ~~type~~
GROUP BY Student.department;
```

Answer to the question no: 3 (viii)

```
SELECT student.name FROM ~~st~~ student,
Enroll, Course WHERE Course.course_id =
enroll.course_id AND student.Std_id =
enroll.std_id AND student.department = 'CSE'
AND credit > 2;
```

Answer to the question no: 3(ix)

```
UPDATE  Course
SET  credit = credit + (1.0/0.5);
```

Answer to the question no: 3(x)

```
DELETE * FROM 'Enroll'
WHERE  session = 'January 2020';
```

Answer to the question no: 4

country (country_id, country_name)

district (district_id, country_id, district_name)

upazilla (upazilla_id, district_id, upazilla_name)

patient (patient_id, first_name, last_name, father_name, mother_name, date_of_birth)

details (patient_id, first_name, last_name, country_name, district_name, upazilla_name, age, situation, date)

symptoms (patient_id, first_name, last_name, symptoms, date_of_symptom, situation, date)

~~Other~~

OtherInfo (Patient_id, first_name, last_name,

occupation, place_of_work, visited_area,

last_visited_area, days_of_attention, date)