



Course name: INTRODUCTION TO DATABASE

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Section: F

Project name: TEACHER MONITORING MANAGEMENT SYSTEM

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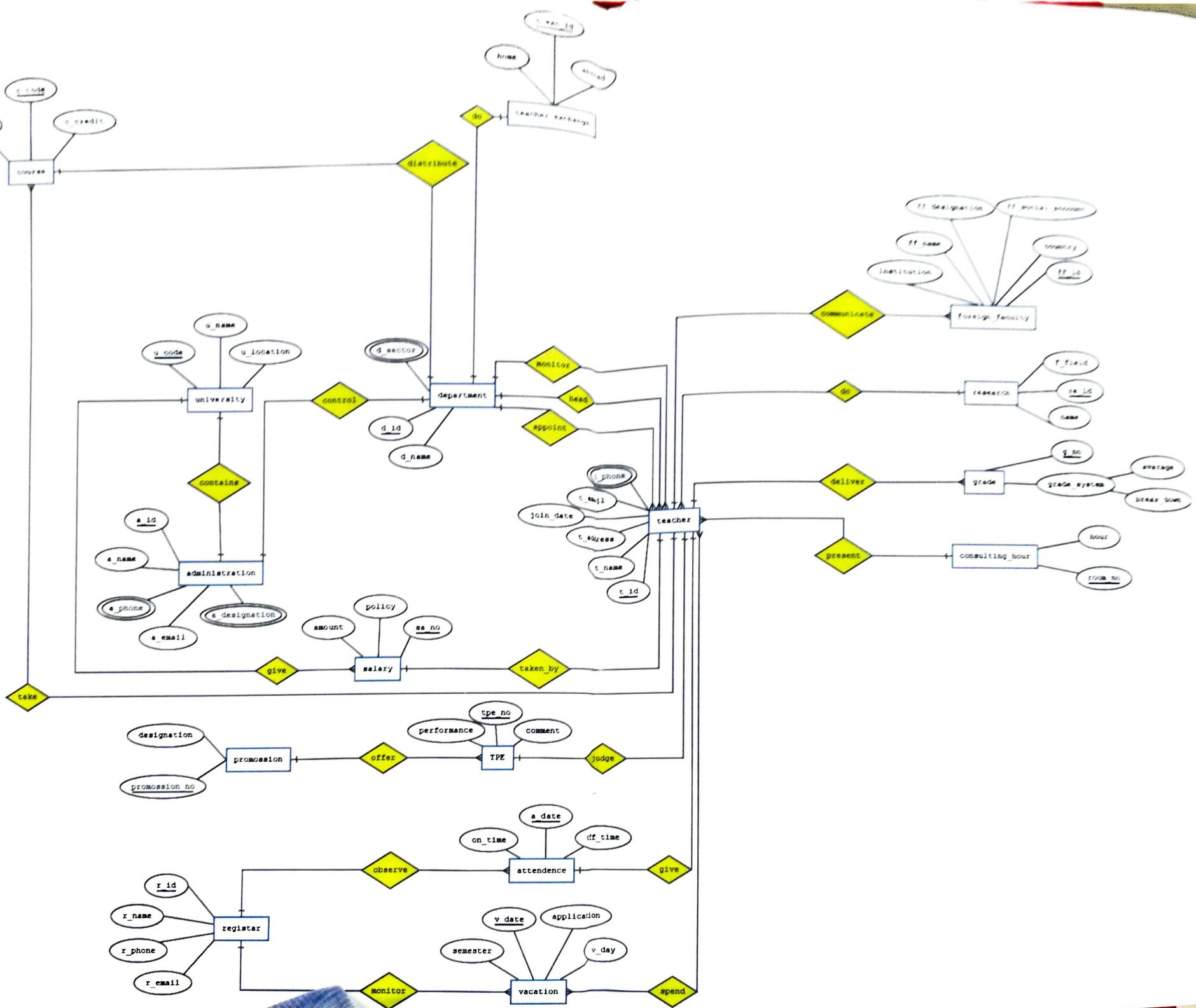
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**INTRODUCTION:** A database management system (DBMS) is a computer software application that interacts with ends-user, other application and the database itself to capture an analyze data. A general –purpose DBMS allows the definition, creation, querying, update and administration of database.

In our project (Teacher monitoring management system) was created by the concept of DBMS. So the main purpose of our project is to know about the basic concept of database management system.

**SCENARIO:** In a teacher monitoring management system a university contains an administration where university has code number, location and name. Administration has an id, name, phone (multivalued), email and designation (multivalued). Administration control departments where the department has id, name, and sector (multivalued). The department appoint teacher where a teacher can be also the head of the department. The teacher has different id, email, address, name, phone (multivalued) and join date. The department also monitor the teacher and distribute courses. Here is also a chance of faculty exchange which is done by the department where faculty can be change home or abroad university and this exchange has an exchange id. The courses have different code, credit and name. University gives salary which was taken by the teacher where the salary has salary no, amount and policy. The teachers judged by TPE. TPE has TPE no, TPE performance, TPE comment option. TPE also offer promotion which has a number and designation. Teachers give attendance which is observe by the registrar and the attendance has a date, on time and off time. Register has different id, name, phone, email. It was also noticed that teacher can spent vacation which is daily, semester wise which has also a date, application and this is also monitor by the registrar. A teacher can communicate with the foreign faculty. The foreign faculty has name, country, designation, social account, id and institute. Any teacher can research, also the research has research field, id and name. In exam result teacher can deliver grade with a grade system and number. The grade system gives two way one is average and one is break down. During leisure time a teacher present consulting hour which has fixed hour and room number.



## Normalization

## **UNIVERSITY ---1---CONTAINS ---1---ADMINISTRATION**

### UNF:

contain (u\_code, u\_name, u\_location, a\_id, a\_name, a\_phone, a\_email, a\_designation)

### 1NF:

a\_phone, a\_designation is multivalued attribute

contain (u\_code, u\_name, u\_location, a\_id, a\_name, a\_phone, a\_email, a\_designation)

### 2NF:

(u\_code, u\_name, u\_location)

(a\_id, a\_name, a\_email, a\_designation)

### 3NF:

(u\_location)

(u\_code, u\_name)

(a\_id, a\_name, a\_phone, a\_email, a\_designation)

### BCNF: already in BCNF

(u\_location)

(u\_code, u\_name)

(a\_id, a\_name, a\_phone, a\_email, a\_designation)

### 4NF: already in 4NF

(u\_location)

(u\_code, u\_name)

(a\_id, a\_name, a\_phone, a\_email, a\_designation)

### Table:

l\_id, u\_location, u\_code

u\_code, u\_name, a\_id

a\_id, a\_name, a\_phone, a\_email, a\_designation

# **ADMINISTRATION---1---CONTROL---1---DEPARTMENT**

UNF:

control (a\_id, a-name, a-phone, a\_email, a\_designation, d\_id,  
d\_name, d\_sector)

1NF:

a\_phone, a\_designation are multivalued attribute.

control (a\_id, a-name, a-phone, a\_email, a\_designation, d\_id,  
d\_name, d\_sector)

2NF:

(d\_id, d\_name, d\_sector)

(a\_id, a-name, a-phone, a\_email, a\_designation)

3NF:

(d\_id, d\_name, d\_sector)

(a\_id, a-name, a-phone, a\_email, a\_designation)

BCNF:

already in BCNF

(d\_id, d\_name, d\_sector)

(a\_id, a-name, a-phone, a\_email, a\_designation)

4NF:

already in 4NF

(d\_id, d\_name, d\_sector)

(a\_id, a-name, a-phone, a\_email, a\_designation)

Table:

d\_id, d\_name, d\_sector, a\_id

a\_id, a-name, a-phone, a\_email, a\_designation

# **DEPARTMENT---1---MONITOR---\*---TEACHER**

UNF:

monitor (d\_id, d\_name, d\_sector, t\_id, t\_name, t\_phone, t\_email,  
t-address, join\_date)

1NF:

t\_phone is a multivalued attribute

monitor (d\_id, d\_name, d\_sector, t\_id, t\_name, t\_phone, t\_email,  
t-address, join\_date)

2NF:

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

3NF:

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

BCNF:

already is BCNF

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

4NF:

already is 4NF

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

Table:

d\_id, d\_name, d\_sector

t\_id, t\_name, t\_phone, t\_email, t-address, join\_date, d\_id

# **DEPARTMENT---1---HEAD---\*---TEACHER**

UNF:

head (d\_id, d\_name, d\_sector, t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

1NF:

t\_phone is a multivalued attribute

head (d\_id, d\_name, d\_sector, t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

2NF:

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

3NF:

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

BCNF:

already is BCNF

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

4NF:

already is 4NF

(d\_id, d\_name, d\_sector)

(t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

Table:

d\_id, d\_name, d\_sector

t\_id, t\_name, t\_phone, t\_email, t-address, join\_date, d\_id

# DEPARTMENT---1---APPOINT---\*---TEACHER

UNF:

appoint (d\_id, d\_name, d\_sector, t\_id, t\_name, t\_phone, t\_email,  
    t-address, join\_date)

1NF:

    t\_phone is a multivalued attribute

appoint (d\_id, d\_name, d\_sector, t\_id, t\_name, t\_phone, t\_email,  
    t-address, join\_date)

2NF:

    (d\_id, d\_name, d\_sector)

    (t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

3NF:

    (d\_id, d\_name, d\_sector)

    (t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

BCNF:

already is BCNF

    (d\_id, d\_name, d\_sector)

    (t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

4NF:

already is 4NF

    (d\_id, d\_name, d\_sector)

    (t\_id, t\_name, t\_phone, t\_email, t-address, join\_date)

Table:

d\_id, d\_name, d\_sector

t\_id, t\_name, t\_phone, t\_email, t-address, join\_date, d\_id

## TABLE CREATION:

1 l\_id, u\_location, u\_code  
2 u\_code, u\_name, a\_id  
3 a\_id, a\_name, a\_phone, a\_email, a\_designation  
4 d\_id, d\_name, d\_sector, a\_id  
5 t\_id, t\_name, t\_phone, t\_email, t\_address, join\_date, d\_id, tpe\_no, r\_id  
6 t\_exc\_id, t\_exc\_home, t\_exc\_abroad, t\_id, d\_id  
7 c\_code, c\_credit, c\_name, d\_id, t\_id  
8 s\_no, s\_amount, s\_policy, t\_id, u\_code  
9 a\_date, a\_ontime, a\_offtime, t\_id, r\_id  
10 tpe\_no, tpe\_comment, tpe\_tpe\_tpe\_performance, pro\_no  
11 pro\_no, pro\_designation, t\_id  
12 r\_id, r\_name, r\_phone, r\_email  
13 v\_date, v\_day, v\_semester, v\_application, r\_id  
14 v\_count, v\_date, t\_id  
15 c\_code, ff\_country, ff\_id  
16 ff\_id, ff\_name, ff\_institution, ff\_designation, ff\_social\_ac, t\_id  
17 re\_id, re\_name, re\_field  
18 g\_no, g\_system, t\_id  
19 room\_no, hour, t\_id

## QUERY WRITING:

1. create table Location(l\_id varchar2(10) primary key,u\_location varchar2(50)not null,u\_code number(10));

Object Type TABLE Object LOCATION										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
LOCATION	l_id	Varchar2	10	-	-	1	0	-	-	
LOCATION	u_location	Varchar2	50	-	-	0	1	-	-	
LOCATION	u_code	Number	-	10	0	0	0	-	✓	

1 - 3

2. create table University(u\_code number(10) primary key,u\_name varchar2(50)not null, a\_id varchar2(10));

Object Type TABLE Object UNIVERSITY										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
UNIVERSITY	u_code	Number	-	10	0	1	0	-	-	
UNIVERSITY	u_name	Varchar2	50	-	-	0	1	-	-	
UNIVERSITY	a_id	Varchar2	10	-	-	0	0	-	✓	

1 - 3

3. create table Administration(a\_id varchar2(10) primary key,a\_name varchar2(20)not null,a\_phone number(11)unique,a\_email varchar2(15)unique,a\_designation varchar2(15));

Object Type TABLE Object ADMINISTRATION										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
ADMINISTRATION	a_id	Varchar2	10	-	-	1	0	-	-	
ADMINISTRATION	a_name	Varchar2	20	-	-	0	1	-	-	
ADMINISTRATION	a_phone	Number	-	11	0	0	0	-	✓	
ADMINISTRATION	a_email	Varchar2	30	-	-	0	0	-	✓	
ADMINISTRATION	a_designation	Varchar2	30	-	-	0	0	-	✓	

1 - 5

4. create table Department(d\_id varchar2(10) primary key,d\_name varchar2(50)not null,check(d\_name IN('FACULTY OF SCIENCE & INFORMATION TECHNOLOGY','FACULTY OF ENGINEERING','FACULTY OF BUSINESS ADMINISTRATION','FACULTY OF ART & SOCIAL SCIENCES')),d\_sector varchar2(6)not null,check (d\_sector in('CSE','EEE','BBA','ENG','ACH','CSSE','SE','CS')),a\_id varchar2(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object DEPARTMENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPARTMENT	D_ID	Varchar2	10	-	-	1	-	-	
	D_NAME	Varchar2	50	-	-	-	-	-	
	D_SECTOR	Varchar2	6	-	-	-	-	-	
	A_ID	Varchar2	10	-	-	-	✓	-	

1 - 4

5. create table Teacher(t\_id varchar2(10) primary key,t\_name varchar2(20)not null,t\_phone number(11)unique,t\_email varchar2(15)unique,t\_address varchar2(50)not null,join\_date date not null,d\_id varchar2(10),tpe\_no number(4),research\_id varchar2(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object TEACHER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEACHER	T_ID	Varchar2	10	-	-	1	-	-	
	T_NAME	Varchar2	20	-	-	-	-	-	
	T_PHONE	Number	-	11	0	-	✓	-	
	T_EMAIL	Varchar2	15	-	-	-	✓	-	
	T_ADDRESS	Varchar2	50	-	-	-	-	-	
	JOIN_DATE	Date	7	-	-	-	-	-	
	D_ID	Varchar2	10	-	-	-	✓	-	
	TPE_NO	Number	-	4	0	-	✓	-	
	RESEARCH_ID	Varchar2	10	-	-	-	✓	-	

1 - 9

## CONSTRAINTS:

1. alter table Location add constraint L1 foreign key(u\_code) references University(u\_code);
2. alter table University add constraint U1 foreign key(a\_id) references Administration(a\_id);
3. alter table Department add constraint D1 foreign key(a\_id) references Administration(a\_id);
4. alter table Teacher add constraint T1 foreign key(d\_id) references Department(d\_id);
5. alter table Teacher add constraint T2 foreign key(research\_id) references Research(research\_id);
6. alter table Teacher add constraint T3 foreign key(tpe\_no) references TPE(tpe\_no);
7. alter table Teacher\_Exchange add constraint TE1 foreign key(t\_id) references Teacher(t\_id);

**10.** alter table Course add constraint C2 foreign key(t\_id) references Teacher(t\_id);

**11.** alter table Salary add constraint S1 foreign key(t\_id) references Teacher(t\_id);

**12.** alter table Salary add constraint S2 foreign key(u\_code) references University(u\_code);

**13.** alter table Attendance add constraint A1 foreign key(t\_id) references Teacher(t\_id);

**14.** alter table Attendance add constraint A2 foreign key(r\_id) references Registrar(r\_id);

**15.** alter table Vacation add constraint V1 foreign key(r\_id) references Registrar(r\_id);

**16.** alter table Vacation2 add constraint V21 foreign key(v\_date) references Vacation(v\_date);

**17.** alter table Vacation2 add constraint V22 foreign key(t\_id) references Teacher(t\_id);

**18.** alter table Foreign\_Faculty add constraint FF1 foreign key(t\_id) references Teacher(t\_id);

**19.** alter table FF\_Course add constraint FFC1 foreign key(ff\_id) references Foreign\_Faculty(ff\_id);

**20.** alter table Grade add constraint G1 foreign key(t\_id) references Teacher(t\_id);

**21.** alter table Consultant\_Hour add constraint CT1 foreign key(t\_id) references Teacher(t\_id);

## DATA INSERTION:

### 1. Location:

```
insert into Location(l_id,u_location,u_code) values('78431','Kuratoli  
Road,Kuril,Khilkhet,Dhaka,Bangladesh','1229');
```

```
insert into Location(l_id,u_location,u_code) values('77450','Road No-10,Block-  
B,Banani,Dhaka,Bangladesh','1212');
```

```
insert into Location(l_id,u_location,u_code) values('78435','Road No-4,Block-  
A,Bashundhara,Dhaka,Bangladesh','1208');
```

```
insert into Location(l_id,u_location,u_code)  
values('78455','Aftabnagar,Rampura,Dhaka,Bangladesh','1215');
```

```
insert into Location(l_id,u_location,u_code) values('78433','Mohakhali,66 Bir  
Uttam Road,Dhaka,Bangladesh','1205');
```

### 2. University:

```
insert into University (u_code,u_name,a_id) values('1229','American  
International University Bangladesh','13-77334-1');
```

```
insert into University (u_code,u_name,a_id) values('1212','South East  
University','Road No-10,Block-B,Banani,Dhaka,Bangladesh','12-55434-1');
```

```
insert into University (u_code,u_name,a_id) values('1208','North South  
University','Road No-4,Block-A,Bashundhara,Dhaka,Bangladesh','14-31471-2');
```

```
insert into University (u_code,u_name,a_id) values('1215','East West  
University','Aftabnagar,Rampura,Dhaka,Bangladesh','11-55431-3');
```

```
insert into University (u_code,u_name,a_id) values('1205','Brac  
University','Mohakhali,66 Bir Uttam AK Khandakar  
Road,Dhaka,Bangladesh','10-13545-1');
```

### 3. Administration:

```
insert into Administration(a_id,a_name,a_phone,a_email,a_designation)
values ('13-77334-1','Md
Marufuzzaman','01815414282','marufuzzaman@aiub.edu','Administrative
Assistant');

insert into Administration(a_id,a_name,a_phone,a_email,a_designation)
values ('14-31471-2','Mukit
Islam','01741404605','mukit@nsu.edu','Administrative Director');

insert into Administration(a_id,a_name,a_phone,a_email,a_designation)
values ('12-55434-1','Md Asif
Rahman','01711532652','asifrahman@seu.edu','Administrative Coordinator');

insert into Administration(a_id,a_name,a_phone,a_email,a_designation)
values ('11-55431-3','Khorshed
Alam','01613414282','khorshed@ewu.edu','Administrative Manager');

insert into Administration(a_id,a_name,a_phone,a_email,a_designation)
values ('10-13545-1','Khairul
Bhuiyan','01971749730','khairul@brac.edu','Administrator');
```

### 4. Department:

```
insert into Department(d_id,d_name,d_sector,a_id) values('FSIT-105','FACULTY
OF SCIENCE & INFORMATION TECHNOLOGY','CSE','13-77334-1');

insert into Department(d_id,d_name,d_sector,a_id) values('FSIT-107','FACULTY
OF SCIENCE & INFORMATION TECHNOLOGY','CSSE','14-31471-2');

insert into Department(d_id,d_name,d_sector,a_id) values('ENGG-
113','FACULTY OF ENGINEERING','EEE','12-55434-1');

insert into Department(d_id,d_name,d_sector,a_id) values('ENGG-
115','FACULTY OF ENGINEERING','ACH','11-55431-3');

insert into Department(d_id,d_name,d_sector,a_id) values('FBA-109','FACULTY
OF BUSINESS ADMINISTRATION','BBA','10-13545-1');
```

## 5. Teacher:

```
insert into
Teacher(t_id,t_name,t_phone,t_email,t_address,join_date,d_id,tpe_no,resear
ch_id) values ('11-33451-1','Rumana
Afrin','01711721452','rafrin@aiub.edu','911/4,Rajarbag,Dhaka,Bangladesh','11
-FEB-13','FSIT-105','211','7809');

insert into
Teacher(t_id,t_name,t_phone,t_email,t_address,join_date,d_id,tpe_no,resear
ch_id) values ('02-33435-1','Juena
Nowshin','01785412580','juena@aiub.edu','Road NO-8,Sector-
6,Uttara,Dhaka,Bangladesh','02-MAY-31','FSIT-107','231','7812');

insert into
Teacher(t_id,t_name,t_phone,t_email,t_address,join_date,d_id,tpe_no,resear
ch_id) values ('07-55132-2','Salma Nur','01535471489','salma@aiub.edu','Road
N0-3,House No-3/B,Banasree,Dhaka,Bangladesh','07-MAR-10','ENGG-
113','233','7810');

insert into
Teacher(t_id,t_name,t_phone,t_email,t_address,join_date,d_id,tpe_no,resear
ch_id) values ('13-35250-3','Sumaiya
Islam','01711285723','sislam@aiub.edu','Road No-1,Jorpukur
Par,Khilgaon,Dhaka,Bangladesh','13-OCT-17','ENGG-115','215','7815');

insert into
Teacher(t_id,t_name,t_phone,t_email,t_address,join_date,d_id,tpe_no,resear
ch_id) values ('15-33225-1','Muniba
Bari','01686974686','mbari@aiub.edu','Road No-7,House No-
313,Banani,Dhaka,Bangladesh','15-DEC-23','FBA-109','218','7820');
```

## 6. Teacher\_Exchange:

```
insert into
Teacher_Exchange(t_exchange_id,t_exchange_home,t_exchange_abroad,t_id,
d_id) values ('13','United International University','11-33451-1','FSIT-105')

insert into
Teacher_Exchange(t_exchange_id,t_exchange_home,t_exchange_abroad,t_id,
d_id) values ('23','Melbourne University','02-33435-1','FSIT-107');

insert into
Teacher_Exchange(t_exchange_id,t_exchange_home,t_exchange_abroad,t_id,
d_id) values ('27','North South University','07-55132-2','ENGG-113');

insert into
Teacher_Exchange(t_exchange_id,t_exchange_home,t_exchange_abroad,t_id,
d_id) values ('33','Brac University','13-35250-3','ENGG-115');

insert into
Teacher_Exchange(t_exchange_id,t_exchange_home,t_exchange_abroad,t_id,
d_id) values ('39','Hokkaido University','15-33225-1','FBA-109');
```

## 7. Course:

```
insert into Course(c_credit,c_code,c_name,d_id,t_id) values
('3','2211','Introduction To Database','FSIT-105','11-33451-1');

insert into Course(c_credit,c_code,c_name,d_id,t_id) values
('3','2213','Algorithm','FSIT-107','02-33435-1');

insert into Course(c_credit,c_code,c_name,d_id,t_id) values
('3','1115','Physics-1','ENGG-113','07-55132-2');

insert into Course(c_credit,c_code,c_name,d_id,t_id) values
('3','1117','Electrical Circuits-1','ENGG-115','13-35250-3');

insert into Course(c_credit,c_code,c_name,d_id,t_id) values
('3','3122','Principle Of Accounting','FBA-109','15-33225-1');
```

## 8. Salary:

```
insert into Salary(s_amount,s_no,s_policy,t_id,u_code) values  
('60000','103','Cash','11-33451-1','1229');
```

```
insert into Salary(s_amount,s_no,s_policy,t_id,u_code) values  
('100000','104','Cheque','02-33435-1','1212');
```

```
insert into Salary(s_amount,s_no,s_policy,t_id,u_code) values  
('50000','105','Cash','07-55132-2','1208');
```

```
insert into Salary(s_amount,s_no,s_policy,t_id,u_code) values  
('80000','109','Cheque','13-35250-3','1215');
```

```
insert into Salary(s_amount,s_no,s_policy,t_id,u_code) values  
('150000','107','','15-33225-1','1205');
```

## 9. TPE:

```
insert into TPE(tpe_no,tpe_comment,tpe_performance,promotion_no) values  
('211','Praises,elicits and responds to student questions','Good','103');
```

```
insert into TPE(tpe_no,tpe_comment,tpe_performance,promotion_no) values  
('231','Teaches accurate and up-to-date information','Best','105');
```

```
insert into TPE(tpe_no,tpe_comment,tpe_performance,promotion_no) values  
('233','Coordinates learning content with instructional  
objectives','Average','109');
```

```
insert into TPE(tpe_no,tpe_comment,tpe_performance,promotion_no) values  
('215','Presents learning content in a logical sequential order','Good','107');
```

```
insert into TPE(tpe_no,tpe_comment,tpe_performance,promotion_no) values  
('218','Encourages participation from all students','Worst','111');
```

## QUERY WRITING:

### Single Row Functions:

Que: Display all data of teacher rumana afrin.

Ans: ~~select \* from Teacher where lower(t\_name)='rumana afrin';~~

Home > SQL > SQL Commands

✓ Autocommit Display 10

```
select * from Teacher where lower(t_name)='rumana afrin';
```

Results Explain Describe Saved SQL History

T_ID	T_NAME	T_PHONE	T_EMAIL	T_ADDRESS	JOIN_DATE	D_ID	TPE_NO	RESEARCH_ID
11-33451-1	Rumana Afrin	1711721452	rafarin@aiub.edu	911/4 Rajarbag Dhaka Bangladesh	11-FEB-13	FST-105	211	7809

1 rows returned in 0.00 seconds

[CSV Export](#)

**Ques:** Display department name,length of department name,the first position of Alphabet F in department name of FSIT id holder.

**Ans:** select d\_name,LENGTH(d\_name),INSTR(d\_name,'F') from Department where SUBSTR(d\_id,1,4)='FSIT';

Home > SQL > SQL Commands

✓ Autocommit Display 10 ▾

```
select d_name,LENGTH(d_name),INSTR(d_name,'F') from Department where SUBSTR(d_id,1,4)='FSIT';
```

Results Explain Describe Saved SQL History

D_NAME	LENGTH(D_NAME)	INSTR(D_NAME,'F')
FACULTY OF SCIENCE & INFORMATION TECHNOLOGY	43	1
FACULTY OF SCIENCE & INFORMATION TECHNOLOGY	43	1

2 rows returned in 0.00 seconds

[CSV Export](#)

Ques: Display the joindate of all teachers in the format DD-MONTH-YYYY(e.g 17 December 1980).

Ans: select t\_name,TO\_CHAR(join\_date, 'fmDD Month YYYY') JOINDATE from Teacher;

User: SCOTT

Home > SQL > SQL Commands

Autocommit: Display: 10

```
select t_name,TO_CHAR(join_date, 'fmDD Month YYYY') JOINDATE from Teacher;
```

Results Explain Describe Saved SQL History

T_NAME	JOINDATE
Rumana Afrin	11 February 2013
Juena Nowshin	2 May 2031
Salma Nur	7 March 2010
Sumaiya Islam	13 October 2017
Muniba Bari	15 December 2023

5 rows returned in 0.00 seconds

CSV Export

## Subquery:

Ques: Display the teachers names who joined after Rumana Afrin.

Ans: select t\_name from Teacher where join\_date > (select join\_date from Teacher where t\_name='Rumana Afrin');

Home > SQL > SQL Commands

✓ Autocommit Display 10 ▾

```
select t_name from Teacher where join_date > (select join_date from Teacher where t_name='Rumana Afrin');
```

Results Explain Describe Saved SQL History

T\_NAME

Juena Nowshin  
Sumaiya Islam  
Muniba Bari

3 rows returned in 0.00 seconds

[CSV Export](#)

Ques: Display the id of the teacher who earn more than 07-55132-2 id.

Ans: select t\_id from Salary where s\_amount > (select s\_amount from Salary where t\_id='07-55132-2');

Home > SQL > **SQL Commands**

Autocommit   Display 10   ▾

```
select t_id from Salary where s_amount > (select s_amount from Salary where t_id='07-55132-2');|
```

**Results** Explain Describe Saved SQL History

T_ID
11-33451-1
15-33225-1
13-35250-3
02-33435-1

4 rows returned in 0.00 seconds   [CSV Export](#)

Joining:

Ques: Display the name of the teachers whose tpe performance is good.

Ans: select Teacher.t\_name,TPE.tpe\_performance from Teacher,TPE where tpe\_performance='Good' AND Teacher.tpe\_no=TPE.tpe\_no;

User SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
select Teacher.t_name,TPE.tpe_performance from Teacher,TPE where tpe_performance='Good' AND Teacher.tpe_no=TPE.tpe_no;
```

Results Explain Describe Saved SQL History

T_NAME	TPE_PERFORMANCE
Rumana Afrin	Good
Sumaiya Islam	Good

2 rows returned in 0.00 seconds [CSV Export](#)

Ques: Display the name of foreign faculty who are from India.

Ans: select Foreign\_Faculty.ff\_name,FF\_Course.ff\_country from Foreign\_Faculty,FF\_Course where ff\_country='India' AND Foreign\_Faculty.ff\_id=FF\_Course.ff\_id;

Home > SQL > SQL Commands

Autocommit Display 10

```
select Foreign_Faculty.ff_name,FF_Course.ff_country from Foreign_Faculty,FF_Course where ff_country='India' AND Foreign_Faculty.ff_id=FF_Course.ff_id;
```

Save Run

Results Explain Describe Saved SQL History

FF_NAME	FF_COUNTRY
Prof.Kashinath Roy	India
Vridhaman Shaha	India

2 rows returned in 0.00 seconds [CSV Export](#)

**CONCLUSION:** After finished this project we have learned many things like how we can make database, making scenario, normalization, query and lot of this. We all have enjoyed.