# CONTENT

**Section: B2**

**Course No: CSE 212**

**Course Title: Database Systems.**

**Project Name: Online Banking System.**

**Submitted to:**

**Nadeem Ahmed,**

**Assistant Professor,**

**Department of CSE,**

**University of Asia Pacific.**

**Submitted By:**

**Name:**

1. **Jannatul Ferdous**
2. **Mojahidul Islam**

**Student IDs of Group Members: 17101088,17101091.**

**Date of Submission: 24.01.18**

**About the project:**

**Online banking, also known as internet banking, it is an electronic payment system that enables customers of a bank or other financial institution to conduct a range of financial transactions through the financial institution's website. The online banking system will typically connect to or be part of the core banking system operated by a bank and is in contrast to branch banking which was the traditional way customers accessed banking services.**

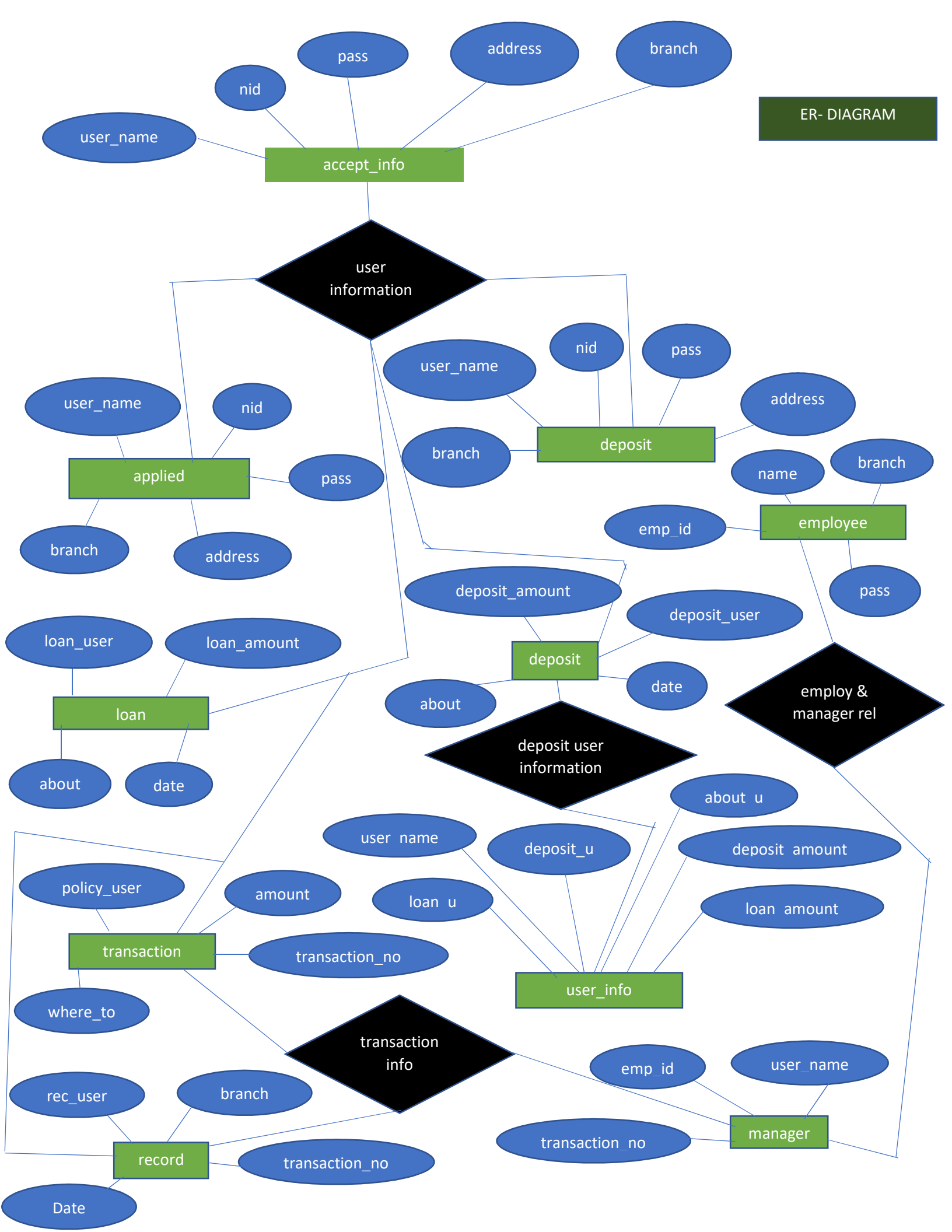
**Today, "virtual banks" (or “direct banks”) have only an internet presence, which enables them to lower costs than traditional brick-and-mortar banks.**

**To access this online banking facility, a customer with internet access will need to register with the institution for the service, and set up a password and other credentials for customer verification. The credentials for online banking are normally not the same as for telephone or mobile banking. The admins will verify that information practically. If information’s are valid, the member will be accepted. Otherwise the member request will be declined.**

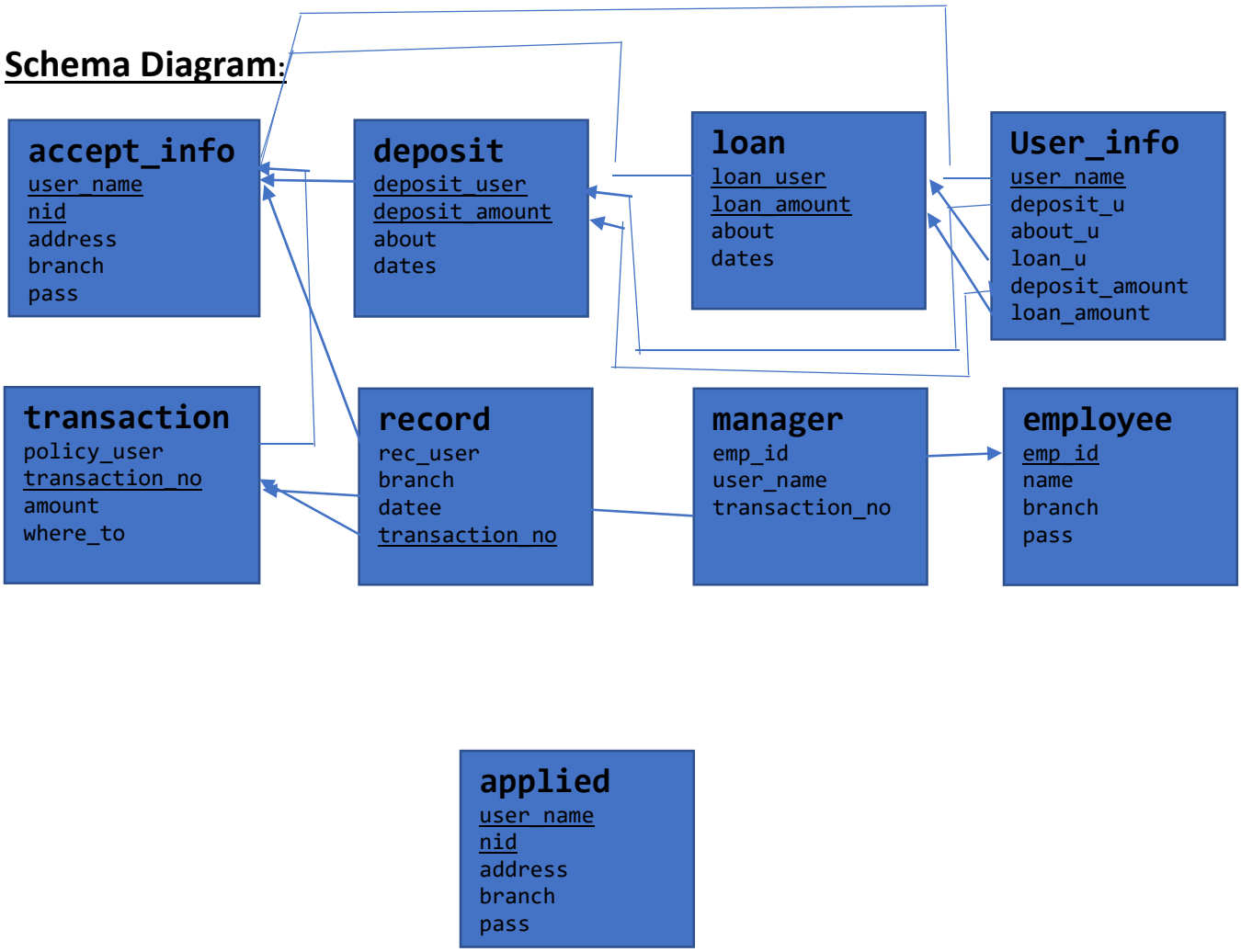
**If a user is a valid member of this online bank, he can take loan, make deposit, send money to other accounts, recharge own account.**

**When any user will login, he will able to see his current balance, loan statements with loan type and dates, money transfer transactions with dates.**

**We have used a database named “bank” with 9 different tables. Each table has specific work & sometimes works for specific users also. For example, in this project we have three kinds of users. Admins controls the accepting table. Again manager can access all tables.**


ER- DIAGRAM
pass
address
branch
nid
user_name
accept_info
user information
user_name
nid
pass
address
user_name
nid
branch
deposit
applied
pass
name
branch
branch
address
emp_id
employee
pass
deposit_amount
deposit_user
loan_user
loan_amount
deposit
date
about
loan
employ & manager rel
about
date
deposit user information
about_u
user_name
deposit_u
deposit_amount
policy_user
amount
loan_u
loan_amount
transaction
transaction_no
user_info
where_to
transaction info
emp_id
user_name
rec_user
branch
manager
transaction_no
record
transaction_no
Date

## Schema Diagram:







**Create table queries and insertion:**

```
create table applied (
	user_name varchar(150),
	nid varchar(150),
	address varchar(150),
	branch varchar(150),
	pass varchar(150),
	CONSTRAINT PK_Customer_appl PRIMARY KEY (user_name,nid)
);
```

```
insert into applied values('Jui','123450','Dhaka','Dhaka','1234a');
insert into applied values('Mujahid','123451','Kishoregonj','Kishoregonj','1234b');
insert into applied values('Jannatul','123452','Sylhet','Sylhet','1234c');
insert into applied values('Islam','123453','Dhaka','Dhaka','1234d');
insert into applied values('Saad','123450','Sylet','Sylet','1234e');
```

```sql
create table accept_info(
	user_name varchar(150),
	nid varchar(150),
	address varchar(150),
	branch varchar(150),
	pass varchar(150),
	CONSTRAINT PK_Customer_acpt PRIMARY KEY (user_name)
);


insert into accept_info values('Jui','123450','Dhaka','Dhaka','1234a');
insert into accept_info values('Mujahid','123451','Kishoregonj','Kishoregonj','1234b');
insert into accept_info values('Jannatul','123452','Sylhet','Sylhet','1234c');
insert into accept_info values('Islam','123453','Dhaka','Dhaka','1234d');
insert into accept_info values('Saad','123450','Sylet','Sylet','1234e');



create table deposite(
	deposite_user varchar(150),
	deposite_amount money,
	about varchar(150),
	dates date,
	FOREIGN KEY (deposite_user) REFERENCES accept_info(user_name),
	CONSTRAINT PK_deposite PRIMARY KEY (deposite_user,deposite_amount)
);

insert into deposite values('Jui',50000,'gsgsdgs','2008-11-11');
insert into deposite values('Mujahid',45000,'gsgsdgs','2015-05-07');
insert into deposite values('Jannatul',90000,'gsgsdgs','2017-07-17');
insert into deposite values('Islam',67000,'gsgsdgs','2011-09-23');
insert into deposite values('Saad',33000,'gsgsdgs','2018-02-03');



create table loan(
	loan_user varchar(150),
	loan_amount money,
	about varchar(150),
	dates date,
	FOREIGN KEY (loan_user) REFERENCES accept_info(user_name),
	CONSTRAINT PK_loan PRIMARY KEY (loan_user,loan_amount)
);


insert into loan values('Jui',43200,'sssssgf','2018-02-03');
insert into loan values('Mujahid',78200,'sssssgf','2009-08-29');
insert into loan values('Jannatul',35000,'sssssgf','2001-12-22');
insert into loan values('Islam',22500,'sssssgf','2013-04-12');
insert into loan values('Saad',75900,'sssssgf','2016-06-19');

select * from loan;

drop table user_info;

create table user_info(
	user_name varchar(150),
	deposite_u varchar(150),
```

```
	about_u varchar(150),
	loan_u varchar(150),
	deposite_amount money,
	loan_amount money,
	FOREIGN KEY (user_name) REFERENCES accept_info(user_name),
	FOREIGN KEY (deposite_u,deposite_amount) REFERENCES
deposite(deposite_user,deposite_amount),


	CONSTRAINT PK_user_info PRIMARY KEY (user_name)

);

insert into user_info values('Jui','Jui','gsgsdgss','Jui',50000,43200);
insert into user_info values('Mujahid','Mujahid','gsgsdgs','Mujahid',45000,78200);
insert into user_info values('Jannatul','Jannatul','gsgsdgs','Jannatul',90000,35000);
insert into user_info values('Islam','Islam','gsgsdgs','Islam',67000,22500);
insert into user_info values('Saad','Saad','gsgsdgs','Saad',33000,75900);


select * from user_info;



create table employee(
	emp_id varchar(150),
	name varchar(150),
	branch varchar(150),
	pass varchar(150),
	CONSTRAINT PK_emp_info PRIMARY KEY (emp_id)
);


insert into employee values('001','Jui','Kishoregonj','1234a');
insert into employee values('002','Mujahid','Sylhet','1234a');
insert into employee values('003','Islam','Dhaka','1234a');




create table transection(
	policy_user varchar(150),
	transection_no int,
	amount varchar(150),
	where_to varchar(150),
	CONSTRAINT PK_transection PRIMARY KEY (transection_no),
	FOREIGN KEY (policy_user) REFERENCES accept_info(user_name)
);



insert into transection values('Jui',010101,'50000','abc');
insert into transection values('Mujahid',010102,'35000','xyz');
insert into transection values('Islam',010103,'59000','pqr');



create table record(
```

```
	rec_user varchar(150),
	branch varchar(150),
	datee date,
	transection_no int,
	FOREIGN KEY (rec_user) REFERENCES accept_info(user_name),
	FOREIGN KEY (transection_no) REFERENCES transection(transection_no)
);


insert into record values('Jui','Dhaka','2008-11-11',010101);
insert into record values('Islam','Dhaka','2011-09-23',010102);
insert into record values('Mujahid','Kishoregonj','2015-05-07',010103);



create table manager(
	emp_id varchar(150),
	user_name varchar(150),
	transection_no int,
	FOREIGN KEY (emp_id) REFERENCES employee(emp_id),
	FOREIGN KEY (transection_no) REFERENCES transection(transection_no),
	FOREIGN KEY (user_name) REFERENCES accept_info(user_name)
);



insert into manager values('001','Jui',010101);
insert into manager values('002','Mujahid',010102);
insert into manager values('003','Islam',010103);

select * from [dbo].[accept_info];
select * from [dbo].[applied];
select * from [dbo].[deposite];
select * from [dbo].[employee];
select * from [dbo].[loan];
select * from [dbo].[manager];
select * from [dbo].[record];
select * from [dbo].[transection];
select * from [dbo].[user_info];

select loan_user from loan where loan_user like '%mu%'


select sum (loan_amount ) as TotalLoan    from loan;

select deposite_user from deposite as deposite where deposite_amount > 50000;

select user_name from accept_info where branch = 'Dhaka'  and address='Dhaka';

select deposite_user,loan_user from deposite , loan where deposite.deposite_user =
loan.loan_user
```

# *SOME SCREENSHOT ON QUARES….*

```
select * from [dbo].[accept_info];
```

110 %

Results | Messages

| | user_name | nid | address | branch | pass |
|---|---|---|---|---|---|
| 1 | Islam | 123453 | Dhaka | Dhaka | 1234d |
| 2 | Jannatul | 123452 | Sylhet | Sylhet | 1234c |
| 3 | Jui | 123450 | Dhaka | Dhaka | 1234a |
| 4 | Mujahid | 123451 | Kishoregonj | Kishoregonj | 1234b |
| 5 | Saad | 123450 | Sylet | Sylet | 1234e |

```
select * from [dbo].[applied];
```

110 %

Results | Messages

| | user_name | nid | address | branch | pass |
|---|---|---|---|---|---|
| 1 | Islam | 123453 | Dhaka | Dhaka | 1234d |
| 2 | Jannatul | 123452 | Sylhet | Sylhet | 1234c |
| 3 | Jui | 123450 | Dhaka | Dhaka | 1234a |
| 4 | Mujahid | 123451 | Kishoregonj | Kishoregonj | 1234b |
| 5 | Saad | 123450 | Sylet | Sylet | 1234e |

```
select * from [dbo].[deposite];
```

110 %

Results | Messages

| | deposite_user | deposite_amount | about | dates |
|---|---|---|---|---|
| 1 | Islam | 67000.00 | gsgsdgs | 2011-09-23 |
| 2 | Jannatul | 90000.00 | gsgsdgs | 2017-07-17 |
| 3 | Jui | 50000.00 | gsgsdgs | 2008-11-11 |
| 4 | Mujahid | 45000.00 | gsgsdgs | 2015-05-07 |
| 5 | Saad | 33000.00 | gsgsdgs | 2018-02-03 |

```
select * from [dbo].[employee]
```

110 %

Results | Messages

| | emp_id | name | branch | pass |
|---|---|---|---|---|
| 1 | 001 | Jui | Kishoregonj | 1234a |
| 2 | 002 | Mujahid | Sylhet | 1234a |
| 3 | 003 | Islam | Dhaka | 1234a |

```
select * from [dbo].[loan];
```

110 %

Results | Messages

| | loan_user | loan_amount | about | dates |
|---|---|---|---|---|
| 1 | Islam | 22500.00 | sssssgf | 2013-04-12 |
| 2 | Jannatul | 35000.00 | sssssgf | 2001-12-22 |
| 3 | Jui | 43200.00 | sssssgf | 2018-02-03 |
| 4 | Mujahid | 78200.00 | sssssgf | 2009-08-29 |
| 5 | Saad | 75900.00 | sssssgf | 2016-06-19 |

```
select * from [dbo].[loan];
select * from [dbo].[manager];
```

110 %

Results | Messages

| | emp_id | user_name | transection_no |
|---|---|---|---|
| 1 | 001 | Jui | 10101 |
| 2 | 002 | Mujahid | 10102 |
| 3 | 003 | Islam | 10103 |

```
select * from [dbo].[record];
```

110 %

Results | Messages

| | rec_user | branch | datee | transection_n |
|---|---|---|---|---|
| 1 | Jui | Dhaka | 2008-11-11 | 10101 |
| 2 | Islam | Dhaka | 2011-09-23 | 10102 |
| 3 | Mujahid | Kishoregonj | 2015-05-07 | 10103 |

```
select * from [dbo].[transection];
```

110 %

Results | Messages

| | policy_user | transection_no | amount | where_to |
|---|---|---|---|---|
| 1 | Jui | 10101 | 50000 | abc |
| 2 | Mujahid | 10102 | 35000 | xyz |
| 3 | Islam | 10103 | 59000 | pqr |

```
select * from [dbo].[transection];
select * from [dbo].[user_info];
```

110 %

Results | Messages

| | user_name | deposite_u | about_u | loan_u | deposite_amount | loan_amount |
|---|---|---|---|---|---|---|
| 1 | Islam | Islam | gsgsdgs | Islam | 67000.00 | 22500.00 |
| 2 | Jannatul | Jannatul | gsgsdgs | Jannatul | 90000.00 | 35000.00 |
| 3 | Jui | Jui | gsgsdgss | Jui | 50000.00 | 43200.00 |
| 4 | Mujahid | Mujahid | gsgsdgs | Mujahid | 45000.00 | 78200.00 |
| 5 | Saad | Saad | gsgsdgs | Saad | 33000.00 | 75900.00 |

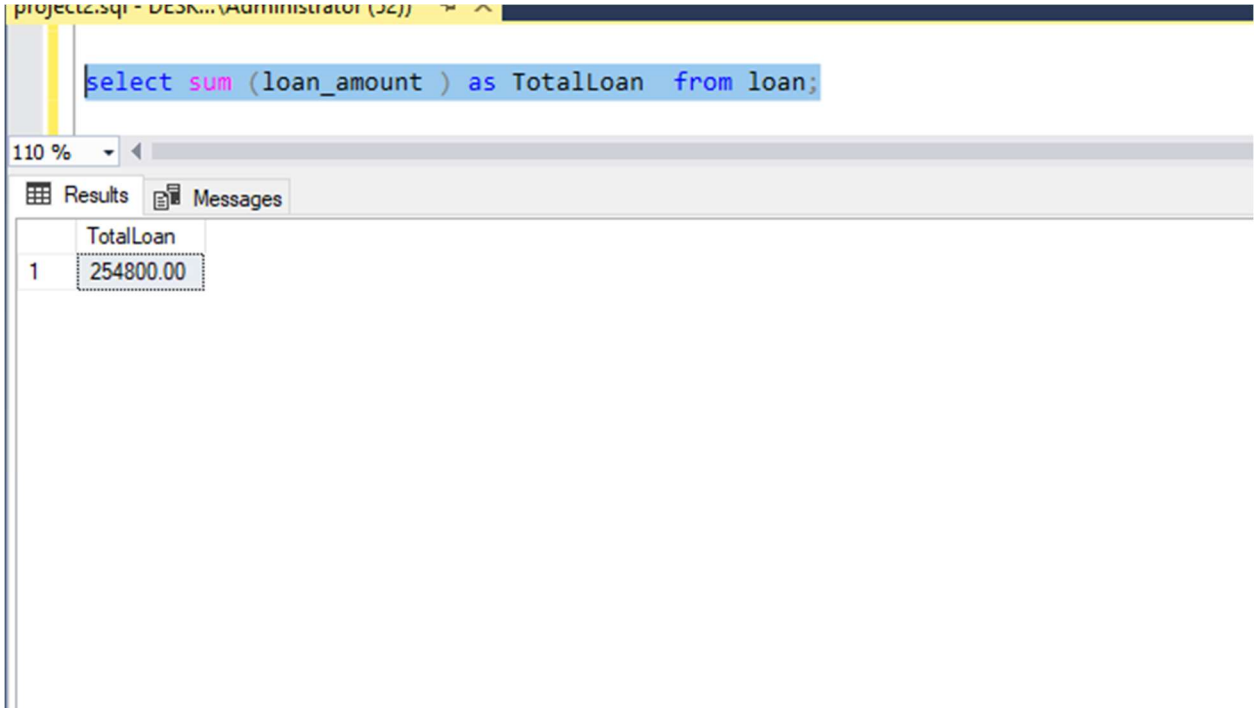
```
select * from [dbo].[manager];
select * from [dbo].[record];select loan_user from loan where loan_user like '%mu%'
```

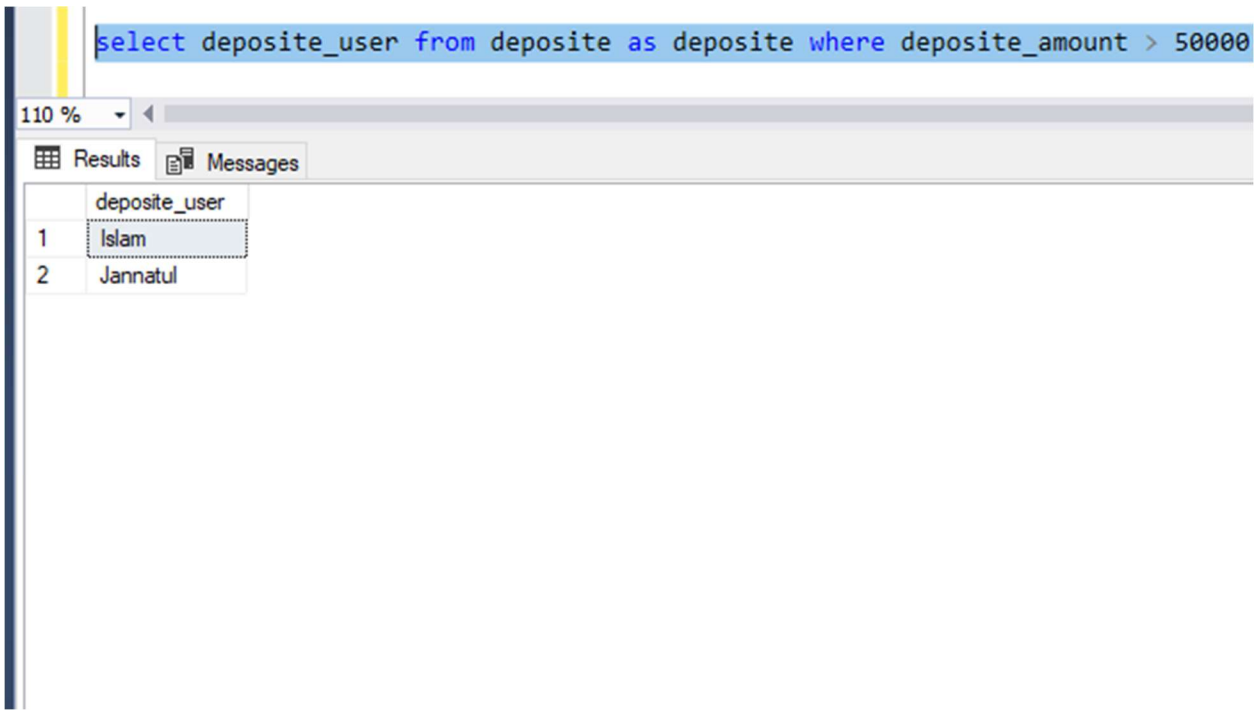
110 %

Results | Messages

| | rec_user | branch | datee | transection_no |
|---|---|---|---|---|
| 1 | Jui | Dhaka | 2008-11-11 | 10101 |
| 2 | Islam | Dhaka | 2011-09-23 | 10102 |
| 3 | Mujahid | Kishoregonj | 2015-05-07 | 10103 |

| | loan_user |
|---|---|
| 1 | Mujahid |


select sum (loan_amount ) as TotalLoan from loan;
110 %
Results
Messages
TotalLoan
1
254800.00


select deposite_user from deposite as deposite where deposite_amount > 50000
110 %
Results
Messages
deposite_user
1
Islam
2
Jannatul

```
select user_name from accept_info where branch = 'Dhaka'  and address='Dhaka';
```

110 %

Results | Messages

| | user_name |
|---|---|
| 1 | Islam |
| 2 | Jui |

```
select deposite_user,loan_user from deposite , loan where deposite.deposite_user = loan.loan_user
```

110 %

Results | Messages

| | deposite_user | loan_user |
|---|---|---|
| 1 | Islam | Islam |
| 2 | Jannatul | Jannatul |
| 3 | Jui | Jui |
| 4 | Mujahid | Mujahid |
| 5 | Saad | Saad |

# THAT'S ALL

# *THANK YOU*