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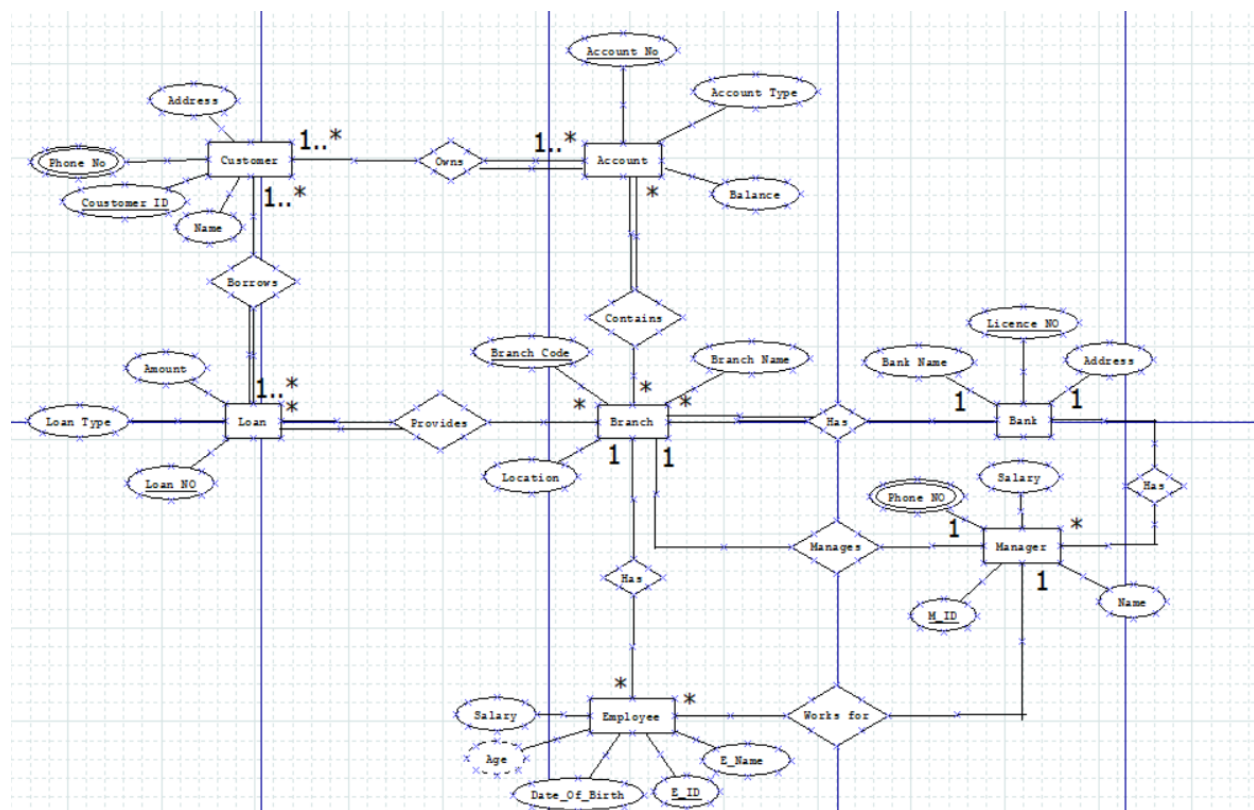
Section: F

BANK MANAGEMENT SYSTEM

In this project we will discuss about a management system of a bank named CCPD. We have used total 7 entites such as **BANK** , **BRANCH** , **MANAGER** , **EMPLOYEE** , **LOAN** , **ACCOUNT** , **CUSTOMER**. The attributes of **BANK** are: Bank name , licence_no (Primary key) and address. The bank has many managers and branches. One manager manages one branch. **MANAGER** and **BRANCH** also has some attributes. **BRANCH** has its name, id and location . **MANAGER** has m_id, m_name , salary , phone no and salary. One branch has many employee. Employees work for one manager who manages the branch. **EMPLOYEE** has name, id, date of birth , age and salary. One branch has many Account. **ACCOUNT** carries account no, type and balance. **CUSTOMER** has name, address, phone no, customer id. One customer can have one loan or many customer can have many loans. **LOAN** has loan type, amount, loan no. The brunch provides the loan.

Case Study

At first we created a new user and granted all the necessary privileges . We have normalized all the relations between the entities and eliminated all the extra tables. Then we created all the tables with proper constraints and inserted some data into tables. We also created some sequences and used them to insert data into tables. Then we created one simple and one complex view and used them to find out some information. At the very end we run some query to justify our project.



Normalization

1#Customer * Account

Owns(Customer_ID, C_Name, Phone_NO, C_Address, Account_No, Account Type, Balance)

1NF: Phone_No is a multivalued attribute

2NF:

Customer_ID	C_Name	Phone_NO	C_Address
-------------	--------	----------	-----------

Account_NO	Acc type	Balance
------------	----------	---------

Customer_ID	Account_NO
-------------	------------

Customer_ID	Phone_NO
-------------	----------

3NF : No transitive dependency

Table for Owns –

Customer_ID	C_Name	Phone_NO	C_Address
-------------	--------	----------	-----------

Account_NO	Acc type		Balance
------------	----------	--	---------

Customer_ID	Account_NO
-------------	------------

Customer_ID	Phone_NO
-------------	----------

2#Customer * Loan

Borrows(Customer_ID, Name, Phone_NO, C_Address, Loan_NO, Loan Type, Amount)

1NF: Phone_No is a multivalued attribute

2NF:

Customer_ID	C_Name	Phone_NO	C_Address
-------------	--------	----------	-----------

Loan_NO	Loan type	Amount
---------	-----------	--------

Customer_ID	Loan_NO
-------------	---------

Customer_ID	Phone_NO
-------------	----------

3NF : No transitive dependency

Table for Borrows:-

Customer_ID	C_Name	Phone_NO	C_Address
-------------	--------	----------	-----------

Loan_NO	Loan type	Amount
---------	-----------	--------

Customer_ID	Loan_NO
-------------	---------

Customer_ID	Phone_NO
-------------	----------

3#Loan * Branch

Provides(Loan_NO, Loan type, Amount, Branch_ID, Branch_Name, Location)

1NF : No multivalued attributes.

2NF:

Loan_NO	Loan type	Amount
---------	-----------	--------

Branch_ID	Branch_Name	Location
-----------	-------------	----------

Loan_NO	Branch_ID
---------	-----------

3NF : No transitive dependency

Table for Provides-

Loan_NO	Loan type	Amount
---------	-----------	--------

Branch_ID	Branch_Name	Location
-----------	-------------	----------

Loan_NO	Branch_ID
---------	-----------

4#Branch * Account

Contains(Branch_ID, Branch_Name, Location , Account_No, Account Type, Balance)

1NF : No multivalued attributes.

2NF:

Account_NO	Acc type	Balance
------------	-------------	---------

Branch_ID	Branch_Name	Location
-----------	-------------	----------

Account_NO	Branch_ID
------------	-----------

3NF : No transitive dependency

Table for Contains-

Account_NO	Acc type	Balance
------------	-------------	---------

Branch_ID	Branch_Name	Location
-----------	-------------	----------

Account_NO	Branch_ID
------------	-----------

5#Branch * Employees

Has (Branch_ID, Branch_Name, Location, E_ID, E_Name, Salary, DOB, Age)

1NF : No multivalued attributes.

2NF:

E_ID	Branch_ID	E_Name	Salary	DOB	Age
------	-----------	--------	--------	-----	-----

Branch_ID	Branch_Name	Location
-----------	-------------	----------

3NF:

E_ID	Branch_ID	E_Name	Salary	Birth_ID
------	-----------	--------	--------	----------

Birth_ID	DOB	Age
----------	-----	-----

Branch_ID	Branch_Name	Location
-----------	-------------	----------

Table for Has-

E_ID	Branch_ID	E_Name	Salary	DOB	Age
------	-----------	--------	--------	-----	-----

Branch_ID	Branch_Name	Location
-----------	-------------	----------

E_ID	Branch_ID	E_Name	Salary	Birth_ID
------	-----------	--------	--------	----------

Birth_ID	DOB	Age
----------	-----	-----

Branch_ID	Branch_Name	Location
-----------	-------------	----------

6#Branch * Bank

Has(Branch_ID, Branch_Name, Location, Licence_NO, Bank_Name, Address)

1NF : No multivalued attributes.

2NF :

Branch_ID	Branch_Name	Location	Licence_NO
-----------	-------------	----------	------------

Licence_NO	Bank_Name	Address
------------	-----------	---------

3NF : No transitive dependency

Table for Has-

Branch_ID	Branch_Name	Location	Licence_NO
-----------	-------------	----------	------------

Licence_NO	Bank_Name	Address
------------	-----------	---------

7#Branch * Manager

Manages(Branch_ID, Branch_Name, Location, M_ID, Name, Salary, Phone_NO)

1NF : Phone_No is a multivalued attribute.

2NF:

Branch_ID	Branch_Name	Location	M_ID
-----------	-------------	----------	------

M_ID	Name	Salary	Phone_NO
------	------	--------	----------

3NF : No transitive dependency

Table for Manages-

Branch_ID	Branch_Name	Location	M_ID
-----------	-------------	----------	------

M_ID	Name	Salary	Phone_NO
------	------	--------	----------

8#Manager * Employee

Works For(M_ID, Name, Salary, Phone_NO, E_ID, E_Name, Salary, DOB, Age

1NF: Phone_No is a multivalued attribute.

2NF:

E_ID	E_Name	E_Salary	DOB	Age	M_ID
------	--------	----------	-----	-----	------

M_ID	Name	M_Salary	Phone_NO
------	------	----------	----------

3NF :

M_ID	Name	M_Salary	Phone_NO
------	------	----------	----------

E_ID	E_Name	E_Salary	Birth_ID	M_ID
------	--------	----------	----------	------

Birth_ID	DOB	Age
----------	-----	-----

Table for Works For-

M_ID	Name	M_Salary	Phone_NO
------	------	----------	----------

E_ID	E_Name	E_Salary	Birth_ID	M_ID
------	--------	----------	----------	------

Birth_ID	DOB	Age
----------	-----	-----

9#Bank * Manager

Has (Licence_NO, Bank_Name, Address, M_ID, Name, Salary, Phone_NO)

1NF: Phone_No is a multivalued attribute.

2NF:

Licence_NO	M_ID	Name	Salary	Phone_NO
------------	------	------	--------	----------

Licence_NO	Bank_Name	Address
------------	-----------	---------

3NF : No transitive dependency

Table for Has-

Licence_NO	M_ID	Name	Salary	Phone_NO
------------	------	------	--------	----------

Licence_NO	Bank_Name	Address
------------	-----------	---------

Final Tables

1.Customer:

Customer_ID	C_Name	Phone_NO	C_Address
-------------	--------	----------	-----------

2.Account:

Account_NO	Acc type	Balance
------------	----------	---------

3.Customer_Account:

Customer_ID	Account_NO
-------------	------------

Customer_ID	Name	Phone_NO	Address
-------------	------	----------	---------

4.Loan:

Loan_NO	Loan type	Amount
---------	-----------	--------

5.Customer_Loan

Customer_ID	Loan_NO
-------------	---------

Loan_NO	Loan type	Amount
---------	-----------	--------

6.Loan_Branch

Loan_NO	Branch_ID
---------	-----------

Account_NO	Acc type	Balance
------------	----------	---------

7.Branch:

Branch_ID	Branch_Name	Location
-----------	-------------	----------

8.Account_Branch:

Account_NO	Branch_ID
------------	-----------

Branch_Employee

E_ID	Branch_ID	E_Name	Salary	Birth_ID
------	-----------	--------	--------	----------

9.Birth

Birth_ID	DOB	Age
----------	-----	-----

Branch_ID	Branch_Name	Location
-----------	-------------	----------

10.Bank:

Licence_NO	Bank_Name	Address
------------	-----------	---------

Branch_Bank:

Branch_ID	Branch_Name	Location	Licence_NO
-----------	-------------	----------	------------

11.Manager:

M_ID	M_Name	M_Salary	Phone_NO
------	--------	----------	----------

Branch_Manager:

Branch_ID	Branch_Name	Location	M_ID
-----------	-------------	----------	------

M_ID	Name	M_Salary	Phone_NO
------	------	----------	----------

Employee_Manager:

E_ID	E_Name	E_Salary	Birth_ID	M_ID
------	--------	----------	----------	------

Birth_ID	DOB	Age
----------	-----	-----

Bank_Manager:

Licence_NO	M_ID	Name	M_Salary	Phone_NO
------------	------	------	----------	----------

Licence_NO	Bank_Name	Address
------------	-----------	---------

Branch_ID	Branch_Name	Location
-----------	-------------	----------

From table Branch_Bank, Branch_Manager, Bank_Manager:

We can notice there is a transitive dependency between these three table so we have to normalize them again.

12.B_M_Bank:

Branch_ID	M_ID	Licence_NO
-----------	------	------------

And from table Branch_Employee and Employee_Manager we get,

13.B_M_Emp:

Branch_ID	M_ID	E_ID
-----------	------	------

14.Employee:

E_ID	E_Name	E_Salary	Birth_ID
------	--------	----------	----------

Table Screenshot-

SQL Commands

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Apps Home Facebook Maps News Translate example on how yo... New Tab

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 500

select* from customer
CREATE TABLE CUSTOMER
(
CUSTOMER_ID NUMBER(20)
CONSTRAINT PK_CUSTOMER_ID PRIMARY KEY,
C_NAME VARCHAR2(50) ,
PHONE_NO VARCHAR2(12),
C_ADDRESS VARCHAR2(15)
)
insert into customer values('1001','Gourab','01791','kushdia')
insert into customer values('1002','sadia','01792','kushdia')
insert into customer values('2002','shifat','01793','kushdia')
insert into customer values('1003','opi','01794','Dhaka')
insert into customer values('3003','piash','01792','Dhaka')

Results Explain Describe Saved SQL History

CUSTOMER_ID	C_NAME	PHONE_NO	C_ADDRESS
1001	Gourab	01791	kushdia
1002	sadia	01792	kushdia
2002	shifat	01793	kushdia
1003	opi	01794	Dhaka
3003	piash	01792	Dhaka

5 rows returned in 0.01 seconds [CSV Export](#)

Language: en-us

3:52:13 PM

Friday, August 13, 2021

August 2021

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Today

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SQL Commands

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 500

select * from Account
CREATE TABLE ACCOUNT (ACCOUNT_NO NUMBER(20) CONSTRAINT PK_ACCOUNT_NO PRIMARY KEY, ACC_TYPE VARCHAR2(50), BALANCE NUMBER(12) CONSTRAINT CK_BAL CHECK(BALANCE >0))
insert into Account values(101,'Current',1000);
insert into Account values(102,'savings',2000);
insert into Account values(103,'savings',3000);
insert into Account values(104,'Current',4000);

Results Explain Describe Saved SQL History

ACCOUNT_NO	ACC_TYPE	BALANCE
101	Current	1000
102	savings	2000
103	savings	3000
104	Current	4000

4 rows returned in 0.01 seconds [CSV Export](#)

Language: en-us

4:15:33 PM

Friday, August 13, 2021

August 2021

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SQL Commands

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 500

select * from Customer_Account

```
CREATE TABLE CUSTOMER_ACCOUNT (CUSTOMER_ID NUMBER(20), ACCOUNT_NO NUMBER(20))

insert into customer_Account values(1001,101);
insert into customer_Account values(2002,102);
insert into customer_Account values(3003,103);
insert into customer_Account values(4004,104);
```

Results Explain Describe Saved SQL History

CUSTOMER_ID	ACCOUNT_NO
1001	101
2002	102
3003	103
4004	104

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

Language: en-us

4:25:02 PM
Friday, August 13, 2021

August 2021

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SQL Commands

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 500

select * from Loan

```
CREATE TABLE LOAN (LOAN_NO NUMBER(10) CONSTRAINT PK_LOAN PRIMARY KEY, LOAN_TYPE VARCHAR2(14), BALANCE NUMBER)

insert into LOAN values(111,'credit',1000);
insert into LOAN values(112,'HOME',2000);
insert into LOAN values(113,'Business',3000);
insert into LOAN values(114,'Personal',4000);
```

Results Explain Describe Saved SQL History

LOAN_NO	LOAN_TYPE	BALANCE
111	credit	1000
112	HOME	2000
113	Business	3000
114	Personal	4000

4 rows returned in 0.01 seconds [CSV Export](#)

Language: en-us

4:37:03 PM
Friday, August 13, 2021

August 2021

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SQL Commands

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 500

select * from Customer_Loan

```
CREATE TABLE CUSTOMER_LOAN (CUSTOMER_ID NUMBER(20), LOAN_NO NUMBER(20))
insert into Customer_Loan values(1001,111);
insert into Customer_Loan values(2002,112);
insert into Customer_Loan values(3003,113);
insert into Customer_Loan values(4004,114);
```

Results Explain Describe Saved SQL History

CUSTOMER_ID	LOAN_NO
1001	111
2002	112
3003	113
4004	114

4 rows returned in 0.02 seconds CSV Export

Language: en-us

4:46:08 PM
Friday, August 13, 2021

August 2021

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SQL Commands

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10

select * from Loan_Branch

```
create table Loan_Branch( Loan_No Number(20), Branch_Id number(20))
insert into Loan_Branch values(111,1111)
insert into Loan_Branch values(112,1111)
insert into Loan_Branch values(113,2222)
insert into Loan_Branch values(114,2222)
```

Results Explain Describe Saved SQL History

LOAN_NO	BRANCH_ID
111	1111
112	1111
113	2222
114	2222

4 rows returned in 0.04 seconds CSV Export

Language: en-us

6:31:21 PM
Sunday, August 15, 2021

August 2021

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SQL Commands

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Oracle Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 500

select * from Branch

CREATE TABLE BRANCH (BRANCH_ID NUMBER(4) CONSTRAINT PK_BRANCH PRIMARY KEY, BRANCH_NAME VARCHAR2(14) , LOCATION VARCHAR2(13))
insert into Branch values(1111,'Dhaka Branch','Dhaka');
insert into Branch values(2222,'Tangail Branch','Tangail');

Results Explain Describe Saved SQL History

BRANCH_ID	BRANCH_NAME	LOCATION
1111	Dhaka Branch	Dhaka
2222	Tangail Branch	Tangail

2 rows returned in 0.02 seconds [CSV Export](#)

Language: en-us

5:11:54 PM

Friday, August 13, 2021

August 2021

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Oracle Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 500

select * from Birth

CREATE TABLE BIRTH (BIRTH_ID NUMBER(10) CONSTRAINT PK_BID PRIMARY KEY, DOB DATE, AGE VARCHAR2(2))
insert into Birth values(1,'1-sep-1980',40);
insert into Birth values(2,'25-oct-1981',39);
insert into Birth values(3,'12-may-1979',38);
insert into Birth values(4,'12-Jan-1982',41);

Results Explain Describe Saved SQL History

BIRTH_ID	DOB	AGE
1	01-SEP-80	40
2	25-OCT-81	39
3	12-MAY-79	38
4	12-JAN-82	41

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

Language: en-us

5:36:12 PM

Friday, August 13, 2021

August 2021

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SQL Commands

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 500

select * from Account_Branch

CREATE TABLE ACCOUNT_BRANCH (ACCOUNT_NO NUMBER, BRANCH_ID NUMBER)

insert into Account_Branch values(101,1111);

insert into Account_Branch values(102,1111);

insert into Account_Branch values(103,2222);

insert into Account_Branch values(104,2222);

Results Explain Describe Saved SQL History

ACCOUNT_NO	BRANCH_ID
101	1111
102	1111
103	2222
104	2222

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

Language: en-us

5:16:55 PM
Friday, August 13, 2021

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 500

select * from Bank

CREATE TABLE BANK (LICENCE_NO NUMBER(4) CONSTRAINT PK_BANK PRIMARY KEY, BANK_NAME VARCHAR2(14), ADDRESS VARCHAR2(13))

insert into Bank values(9090, 'CCPD', 'Ladakh')

Results Explain Describe Saved SQL History

LICENCE_NO	BANK_NAME	ADDRESS
9090	CCPD	Ladakh

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

Language: en-us

5:41:11 PM
Friday, August 13, 2021

August 2021

Su	Mo	Tu	We	Th	Fr	Sa
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SQL Commands

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Oracle Database Express Edition

User: SYSTEM

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Autocommit Display 500

select * from Bank

```
CREATE TABLE BANK (LICENCE_NO NUMBER(4) CONSTRAINT PK_BANK PRIMARY KEY,BANK_NAME VARCHAR2(14) ,ADDRESS VARCHAR2(13))
insert into Bank values(9090,'CCPD','Ladakh')
```

Results Explain Describe Saved SQL History

LICENCE_NO	BANK_NAME	ADDRESS
9090	CCPD	Ladakh

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

Language: en-us

5:41:11 PM
Friday, August 13, 2021

August 2021

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SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:1573199552431529:NO::

Oracle Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10

select * from B_M_Bank

```
create table B_M_Bank( Branch_id number(20), m_id number(20), Licence_no number(20))
insert into B_M_Bank values(1111,601,1020)
insert into B_M_Bank values(2222,602,1020)
```

Results Explain Describe Saved SQL History

BRANCH_ID	M_ID	LICENCE_NO
2222	602	1020
1111	601	1020

2 rows returned in 0.04 seconds [CSV Export](#)

Language: en-us

6:45:07 PM
Sunday, August 15, 2021

August 2021

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29	30	31	1	2	3	4
5	6	7	8	9	10	11

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Set up your calendars to see where you need to be

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The screenshot shows the Oracle Database Express Edition web interface. The browser address bar displays the URL: 127.0.0.1:8080/apex/f?p=4500:1003:1573199552431529:NO::: The page title is "ORACLE Database Express Edition". The user is logged in as "SYSTEM". The "SQL Commands" tab is active, showing the following SQL script:

```
select * from B_M_Emp

create table B_M_Emp( Branch_id number(20), m_id number(20), e_id number(20))

insert into B_M_Emp values(1111,601,2001)
insert into B_M_Emp values(1111,602,2002)
insert into B_M_Emp values(2222,601,2003)
insert into B_M_Emp values(2222,602,2004)
```

The "Results" tab is selected, displaying the following table:

BRANCH_ID	M_ID	E_ID
1111	601	2001
1111	602	2002
2222	601	2003
2222	602	2004

Below the table, it states "4 rows returned in 0.00 seconds" and provides a "CSV Export" link. The right sidebar shows the time "6:47:53 PM", the date "Sunday, August 15, 2021", a calendar for August 2021, and a "Get started" button. The bottom status bar shows the Windows taskbar with various icons and the system clock "6:47 PM".

Questions:

1. Print customer name whose id is 1003 and lives in Dhaka.
2. Print branch name of id 1111.
3. Print the phone no of those manager whose name is Ash.
4. Print the name of those manager whose salary more than 1760.
5. Print the birth id of those person whose age is more than or equal to 40.

