



RECOVERY OF LOST BIRTH CERTIFICATE

Group : 07

GROUP MEMBERS:

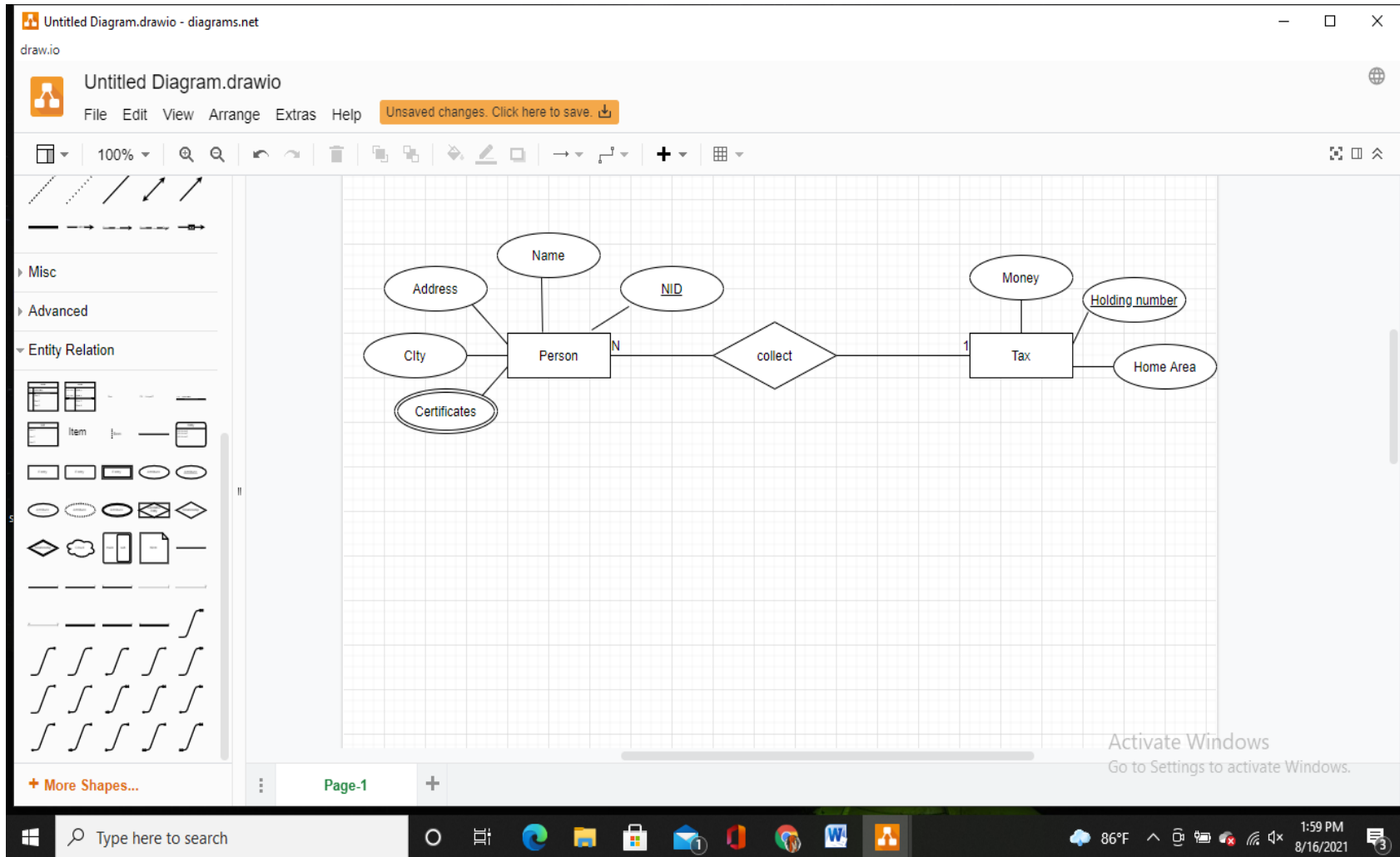
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RECOVERY OF LOST BIRTH CERTIFICATE

Every person can have their Birth certificate several times if needed but for this he has to go through some process. For the recovery of lost birth certificate a person needs to show some documents of his own. Municipality office wants to have person's information like name, contact number address, city and NID. Also person has to submit his recently paid home tax paper. If someone does not have tax paper, then he has to collect tax paper from the tax collector of the municipality office. The text paper has a holding number, area number and the amount of money. There is also a registration book number for each birth certificate. If you want to get a birth certificate, you have to look at this book number to verify the previous birth certificate of the person.. After submitting all the paperwork, the municipality office will give the person a certain amount of time to get the birth certificate. Then all the paperwork will be given by the municipality office to their computer operator. The computer operator will take out the paper after getting the signature of the upazila chairman. Then the person can come on the appointed day and collect the birth certificate. A birth certificate has a personal identification number and birth certificate number.

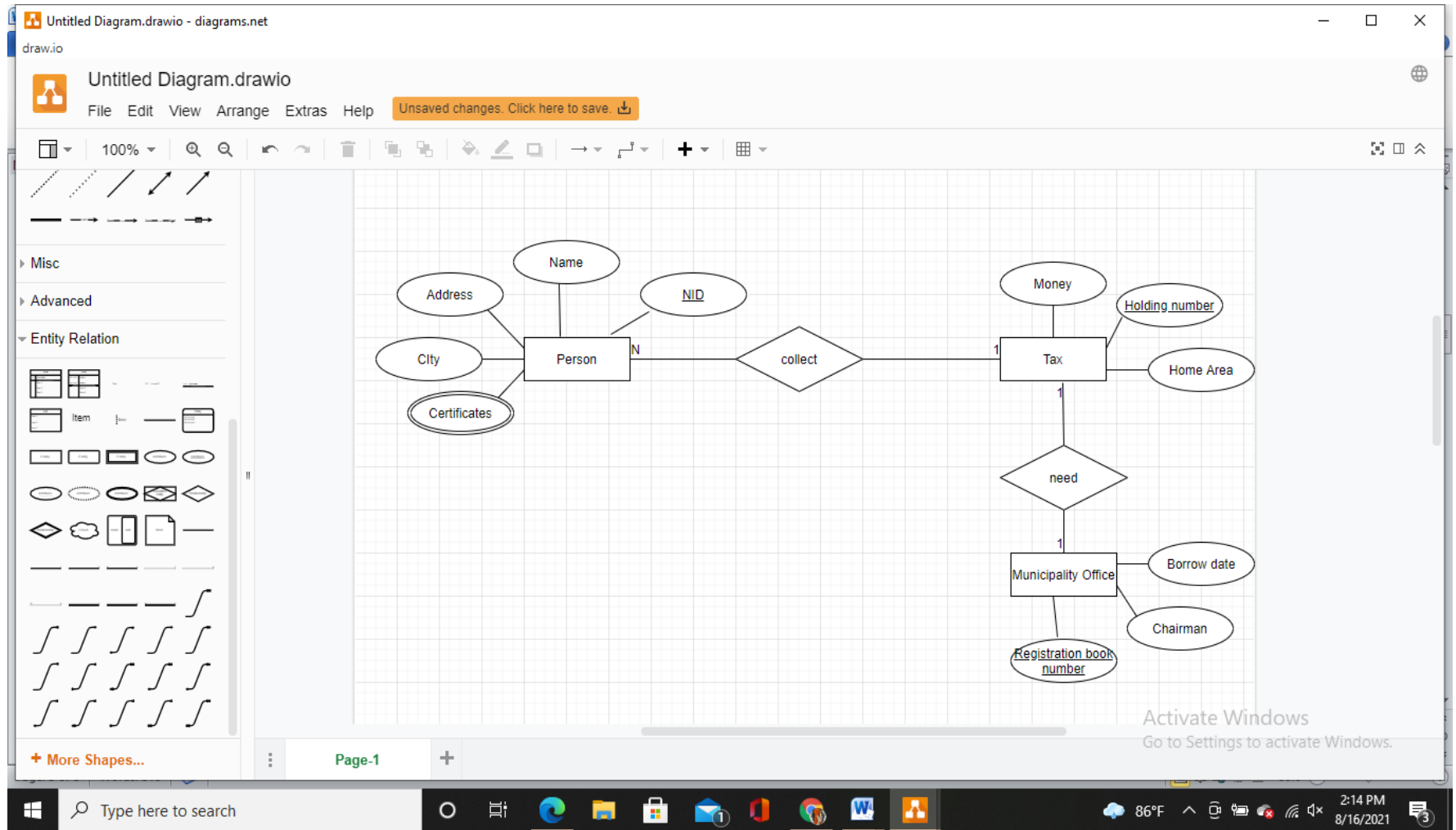
ER Diagram

Screenshot – 01

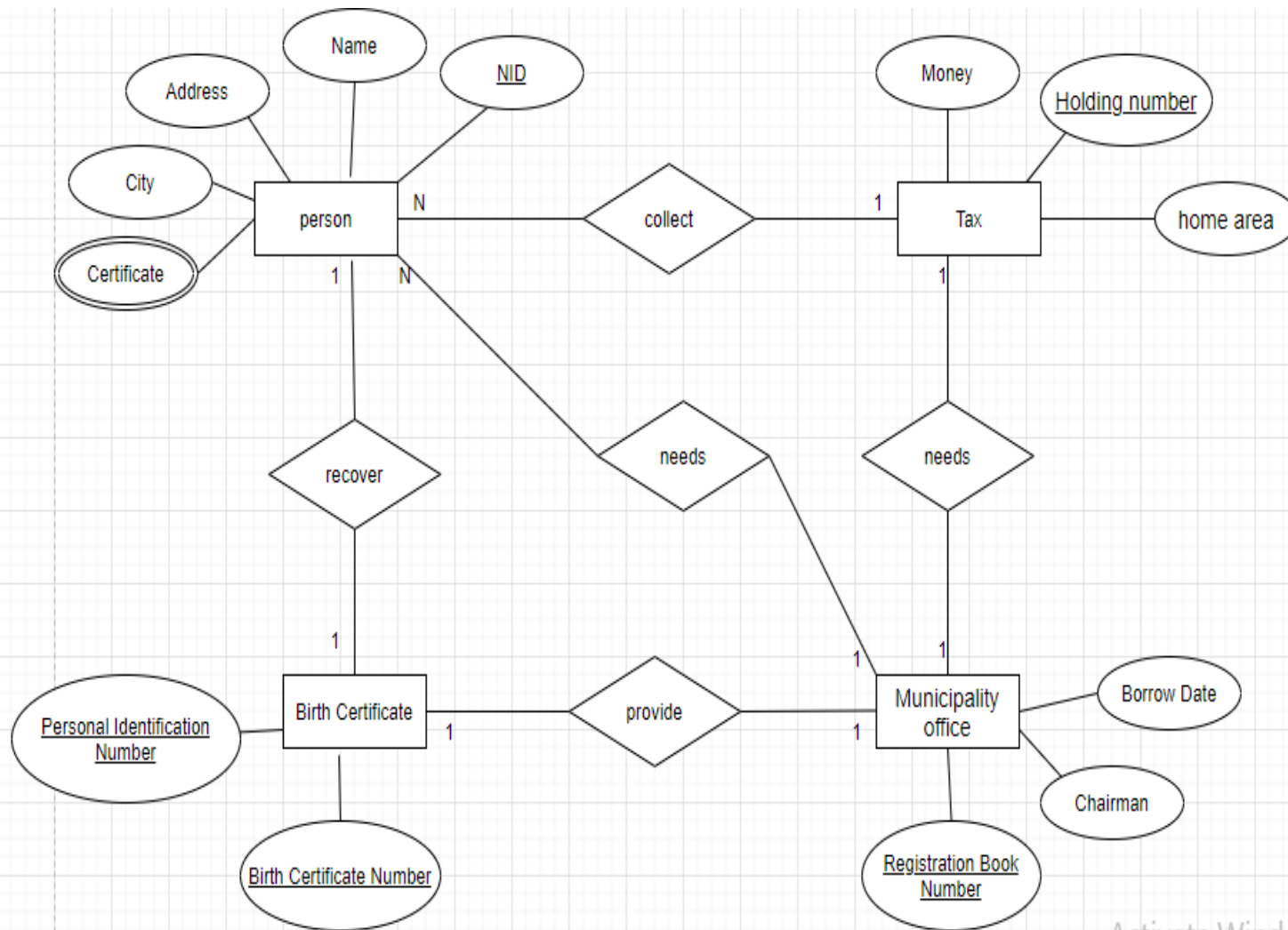


ER Diagram

Screenshot – 02



ER Diagram



Normalization

Collect:

UNF: 1st: nid, name , Address , city , contact_no, holding_no , area , amount

Contact_no is multi valued attribute.

1NF: nid , contact_no , holding_no , name , address , city, area , amount

2NF: 1st: nid , name , contact_no , address , holding_no , city

2nd: holding_no , area , amount

3NF: 1st: nid , contact_no

2nd: nid , name, address

3rd: address , holding_no , city

4th: holding_no , area , amount

Submit tax paper:

UNF: 2nd: holding_no , area, amount, reg_bno , borrow_date , chairman

There is no multi valued attribute.

1NF: holding_no, reg_bno , area , amount , borrow_date , chairman

2NF: 1st: holding_no , area, amount , reg_bno

2nd: reg_bno , borrow_date , chairman

There is no transitive dependency.

3NF: 1st: holding_no , area , amount, reg_bno

2nd: reg_bno , borrow_date , chairman

Submit personal info:

UNF :3rd : nid , name , address , city , contact_no , reg_bno , borrow_date , chairman

Contact_no is multi valued attribute.

1NF: nid, contact_no, reg_bno , name , Address , city , borrow_date , chairman

2NF: 1st: nid , name , contact_no , address , city , reg_bno

2nd: reg_bno , borrow_date , chairman

3NF: 1st: nid , contact_no

2nd: nid , name, address , reg_bno

3rd: nid , address, city

4th: reg_bno , borrow_date , chairman

Provide:

UNF: 4th: reg_bno , borrow_date , chairman , pid_no , bc_no

There is no multi valued attribute.

1NF: 1st: reg_bno , pid_no , bc_no , borrow_date , chairman

2NF: 1st: reg_bno , borrow_date , chairman , pid_no

2nd: pid_no , bc_no

There is no transitive dependency.

3NF: 1st: reg_bno , borrow_date , chairman , pid_no

2nd: pid_no , bc_no

Recover:

UNF: 5th: nid , name , address , city , contact_no , pid_no , bc_no

Contact_no is multi valued attribute.

1NF: nid , contact_no , reg_bno , pid_no , bc_no , name , Address , city

2NF: 1st: nid , name , contact_no , address , city , pid_no

2nd: pid_no , bc_no

3NF: 1st: nid , contact_no

2nd: nid , name , address , pid_no

3rd: nid , address , city

4th: pid_no , bc_no

Final Table:

1st: nid , contact_no

2nd: nid , name, address

3rd: address, holding_no, city

4th: holding_no , area , amount, reg_bno

5th: nid , name, address , reg_bno

6th: reg_bno , borrow_date , chairman , pid_no

7th: nid , name, address , pid_no

8th: pid_no , bc_no

Table Creation

1. Phone:

```
create table Phone(  
nid number(10),  
contact_no number(11) unique,  
primary key(nid)  
);desc Phone;
```

☒ Autocommit Rows 10 Save Run

create table Phone(
nid number(10),
contact_no number(11) unique,
primary key(nid)
);
desc Phone;

Results Explain Describe Saved SQL History

Object Type TABLE Object PHONE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PHONE	NID	NUMBER	-	10	0	1	-	-	-
	CONTACT_NO	NUMBER	-	11	0	-	✓	-	-
1 - 2									

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Application Express 4.0.2.00.09

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2. Person:

create table Person(

NID number(10) constraint person_pk primary key,

Name varchar2(25),

Address varchar2(35)

);desc Person;

The screenshot shows the SQL Developer interface. At the top, there's a toolbar with 'Autocommit' checked, 'Rows' set to 10, and 'Save' and 'Run' buttons. The main text area contains the following SQL code:

```
create table Person(  
NID number(10) constraint person_pk primary key,  
Name varchar2(25),  
Address varchar2(35)  
);  
  
desc Person;
```

Below the text area, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Describe' tab is active, showing the table structure for 'PERSON'.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PERSON	NID	NUMBER	-	10	0	1	-	-	-
	NAME	VARCHAR2	25	-	-	-	✓	-	-
	ADDRESS	VARCHAR2	35	-	-	-	✓	-	-

At the bottom right, there's a watermark that says 'Activate Windows Go to Settings to activate Windows. Application Express 4.0.2.00.09'. The status bar at the very bottom shows 'Workspace: SJM User: SJM', 'Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.', and the system clock '3:34 PM 8/16/2021'.

3. Residence :

```
create table Residence(  
address varchar(35) constraint residence_pk primary key,  
holding_no number(15),  
city varchar(10)  
);desc Residence;
```

The screenshot displays the Oracle SQL Developer interface. At the top, a toolbar includes a checked 'Autocommit' box, a 'Rows' dropdown set to '10', and 'Save' and 'Run' buttons. The main text area contains the SQL script: `create table Residence(
address varchar(35) constraint residence_pk primary key,
holding_no number(15),
city varchar(10)
);
desc Residence;`. Below the text area, a tabbed interface shows 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Describe' tab is active, displaying the table structure for 'RESIDENCE'. The structure is as follows:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RESIDENCE	ADDRESS	VARCHAR2	35	-	-	1	-	-	-
	HOLDING_NO	NUMBER	-	15	0	-	✓	-	-
	CITY	VARCHAR2	10	-	-	-	✓	-	-

At the bottom right of the 'Describe' tab, it indicates '1 - 3' rows. The status bar at the bottom shows 'Workspace: SJM User: SJM', 'Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.', and the system clock '10:13 PM 8/16/2021'.

4. Tax:

```
create table Tax(  
  holding_no number(15) constraint tax_pk primary key,  
  Home_area float,  
  amount float,  
  reg_bno number(15)  
)  
alter table tax add constraint check_ha check(home_area < 3000);  
desc Tax;
```

```
create table Tax(  
  holding_no number(15) constraint tax_pk primary key,  
  Home_area float,  
  amount float,  
  reg_bno number(15)  
)  
alter table tax add constraint check_ha check(home_area < 3000);  
desc Tax;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object TAX

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TAX	HOLDING_NO	NUMBER	-	15	0	1	-	-	-
	HOME_AREA	FLOAT	126	126	-	-	✓	-	-
	AMOUNT	FLOAT	126	126	-	-	✓	-	-
	REG_BNO	NUMBER	-	15	0	-	✓	-	-
1 - 4									

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Go to Settings to activate Windows.

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5. Book:

```
create table Book(  
  nid number(10),  
  name varchar(25),  
  address varchar(35),  
  reg_bno number(15),primary key (nid , reg_bno));desc Book;
```

☒ Autocommit Rows 10 Save Run

```
create table Book(  
  nid number(10),  
  name varchar(25),  
  address varchar(35),  
  reg_bno number(15),  
  primary key (nid , reg_bno)  
);  
desc Book;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object BOOK

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BOOK	NID	NUMBER	-	10	0	1	-	-	-
	NAME	VARCHAR2	25	-	-	-	✓	-	-
	ADDRESS	VARCHAR2	35	-	-	-	✓	-	-
	REG_BNO	NUMBER	-	15	0	2	-	-	-
1 - 4									

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6. Registration:

```
create table registration(  
  reg_bno number(15) constraint registration_pk primary key,  
  borrow_date date,  
  chairman varchar(15),  
  pid_no number(10));  
desc registration;
```

☒ Autocommit Rows: 10 Save Run

```
create table registration(  
  reg_bno number(15) constraint registration_pk primary key,  
  borrow_date date,  
  chairman varchar(15),  
  pid_no number(10));  
desc registration;
```

Results Explain **Describe** Saved SQL History

Object Type: TABLE Object: REGISTRATION

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
REGISTRATION	REG_BNO	NUMBER	-	15	0	1	-	-	-
	BORROW_DATE	DATE	7	-	-	-	✓	-	-
	CHAIRMAN	VARCHAR2	15	-	-	-	✓	-	-
	PID_NO	NUMBER	-	10	0	-	✓	-	-
1 - 4									

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7. PID:

```
create table PID(  
  pid_no number(10),  
  nid number(10),  
  name varchar(25),  
  address varchar(35),  
  primary key(pid_no , nid) );desc PID;
```

The screenshot shows the SQL Developer interface. The top toolbar includes a checked 'Autocommit' checkbox, a 'Rows' dropdown set to 10, and 'Save' and 'Run' buttons. The SQL editor contains the following script:

```
create table PID(  
  pid_no number(10),  
  nid number(10),  
  name varchar(25),  
  address varchar(35),  
  primary key(pid_no , nid)  
);  
desc PID;
```

Below the editor, the 'Describe' tab is selected, displaying the table structure for 'PID'.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PID	PID_NO	NUMBER	-	10	0	1	-	-	-
	NID	NUMBER	-	10	0	2	-	-	-
	NAME	VARCHAR2	25	-	-	-	✓	-	-
	ADDRESS	VARCHAR2	35	-	-	-	✓	-	-

At the bottom of the Describe tab, it indicates '1 - 4'.

The status bar at the bottom shows 'Workspace: SJM User: SJM', 'Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.', and the system clock '10:41 PM 8/16/2021'.

8. BC:

```
create table BC(  
  pid_no number(10) constraint BC_pk primary key,  
  bc_no number(10)  
);desc BC;
```

☒ Autocommit Rows: 10 Save Run

```
create table BC(  
  pid_no number(10) constraint BC_pk primary key,  
  bc_no number(10)  
);desc BC;
```

Results Explain Describe Saved SQL History

Object Type: TABLE Object: BC

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BC	PID_NO	NUMBER	-	10	0	1	-	-	-
	BC_NO	NUMBER	-	10	0	-	✓	-	-
1 - 2									

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Data Insertion

1. Phone :

```
insert into phone values(3760176515 , 01775935142);  
insert into phone values(2740185152 , 01671665399);  
insert into phone values(3210176143 , 01711155080);  
select * from phone;
```

The screenshot shows a database application window with a toolbar at the top containing a checkbox for 'Autocommit', a 'Rows' dropdown set to '10', and 'Save' and 'Run' buttons. The main text area contains the SQL code from the previous block. Below the text area is a tabbed interface with 'Results' selected. The results are displayed in a table with two columns: 'NID' and 'CONTACT_NO'. The table contains three rows of data. Below the table, it states '3 rows returned in 0.00 seconds' and provides a 'Download' link. The application footer shows 'Workspace: SJM User: SJM', 'Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.', and 'Application Express 4.0.2.00.09'. The Windows taskbar is visible at the bottom with the search bar and system tray.

NID	CONTACT_NO
3760176515	1775935142
2740185152	1671665399
3210176143	1711155080

3 rows returned in 0.00 seconds [Download](#)

Workspace: SJM User: SJM Language: en | Copyright © 1999, 2010, Oracle. All rights reserved. Application Express 4.0.2.00.09

2. Person:

insert into person values(3760176515 , 'samia jahan' , 'R.K Mission Road');

insert into person values(2740185152 , 'sadman mojumder' , 'avoy dash lane');

insert into person values(3210176143 , 'tabassum rahman' , 'kurmitola');

select * from person;

The screenshot shows a SQL IDE interface. At the top, there's a toolbar with 'Autocommit' checked, 'Rows' set to 10, and 'Save' and 'Run' buttons. Below the toolbar is a text area containing the following SQL commands:

```
insert into person values(3760176515 , 'samia jahan' , 'R.K Mission Road');
insert into person values(2740185152 , 'sadman mojumder' , 'avoy dash lane');
insert into person values(3210176143 , 'tabassum rahman' , 'kurmitola');
select * from person;
```

Below the text area is a tabbed interface with 'Results' selected. It displays a table with the following data:

NID	NAME	ADDRESS
3760176515	samia jahan	R.K Mission Road
2740185152	sadman mojumder	avoy dash lane
3210176143	tabassum rahman	kurmitola

Below the table, it says '3 rows returned in 0.02 seconds' and has a 'Download' link. At the bottom of the IDE, there's a status bar showing 'Workspace: SJM User: SJM' and 'Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.'.

Windows taskbar at the bottom shows the Start button, search bar, and several application icons. The system tray on the right shows the date and time as 11:35 PM on 8/16/2021, along with weather information (86°F, Light rain) and network status.

3. Residence:

insert into residence values('R.K Mission Road' , 49 , 'Dhaka');

insert into residence values('avoy dash lane' , 51 , 'Dhaka');

insert into residence values('kurmitola' , 72 , 'Sylhet');

select * from residence;

The screenshot shows a database application window. At the top, there's a toolbar with 'Autocommit' checked, 'Rows' set to 10, and 'Save' and 'Run' buttons. Below the toolbar is a text area containing the following SQL queries:

```
insert into residence values('R.K Mission Road' , 49 , 'Dhaka');
insert into residence values('avoy dash lane' , 51 , 'Dhaka');
insert into residence values('kurmitola' , 72 , 'Sylhet');
select * from residence;
```

Below the text area is a tabbed interface with 'Results' selected. It displays a table with the following data:

ADDRESS	HOLDING_NO	CITY
R.K Mission Road	49	Dhaka
avoy dash lane	51	Dhaka
kurmitola	72	Sylhet

Below the table, it says '3 rows returned in 0.05 seconds' and has a 'Download' link. At the bottom of the application window, there's a status bar with 'Workspace: SJM User: SJM' and 'Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.'.

Windows taskbar at the bottom shows the Start button, search bar, and several application icons. The system tray on the right shows the date and time as '11:43 PM 8/16/2021' and a notification icon.

Watermark text in the bottom right corner reads: 'Activate Windows Go to Settings to activate Windows Application Express 4.0.2.00.09'.

4. Tax:

```
insert into tax values( 49 , 1845.34 , 8000 , 3452378);  
insert into tax values(51 , 1423.24 , 4000 , 4567832);  
insert into tax values( 72 , 1893.23 , 8324.75 , 8762345);  
select * from tax;
```

The screenshot shows a SQL IDE interface. At the top, there's a toolbar with 'Autocommit' checked, 'Rows' set to 10, and 'Save' and 'Run' buttons. Below the toolbar, the SQL code is entered in a text area. The 'Results' tab is active, displaying a table with 4 columns: HOLDING_NO, HOME_AREA, AMOUNT, and REG_BNO. The table contains 3 rows of data. Below the table, it says '3 rows returned in 0.00 seconds' and there is a 'Download' link. In the bottom right corner, there is a watermark for 'Activate Windows' and 'Go to Settings to activate Windows.' The bottom status bar shows 'Workpace: SIM User: SIM' and 'Application Express 4.0.2.00.09'.

Results Explain Describe Saved SQL History

HOLDING_NO	HOME_AREA	AMOUNT	REG_BNO
49	1845.34	8000	3452378
51	1423.24	4000	4567832
72	1893.23	8324.75	8762345

3 rows returned in 0.00 seconds [Download](#)

Activate Windows
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5. Book:

insert into book values(3760176515 , 'samia jahan' , 'R.K Mission Road' , 3452378);

insert into book values(2740185152 , 'sadman mojumder' , 'avoy dash lane' , 4567832);

insert into book values(3210176143 , 'tabassum rahman' , 'kurmitola' , 8762345);

select * from book ;

☒ Autocommit Rows Save Run

```
insert into book values(3760176515 , 'samia jahan' , 'R.K Mission Road' , 3452378);
insert into book values(2740185152 , 'sadman mojumder' , 'avoy dash lane' , 4567832);
insert into book values(3210176143 , 'tabassum rahman' , 'kurmitola' , 8762345);
select * from book ;
```

Results Explain Describe Saved SQL History

NID	NAME	ADDRESS	REG_BNO
3760176515	samia jahan	R.K Mission Road	3452378
2740185152	sadman mojumder	avoy dash lane	4567832
3210176143	tabassum rahman	kurmitola	8762345

3 rows returned in 0.06 seconds [Download](#)

Workspace: SJM User: SJM

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[Go to Settings to activate Windows.](#)

Type here to search 86°F Light rain 11:58 PM 8/16/2021

6. Registration:

```
insert into registration values(3452378 , to_date('19/04/20' , 'DD/MM/YY') , 'Rafikul Haq' , 98456733);  
insert into registration values(4567832 ,to_date('5/07/07' , 'DD/MM/YY'), 'Mostofa Kamal' , 87687659);  
insert into registration values(8762345 ,to_date('5/07/07' , 'DD/MM/YY') , 'Shamsul Haq' , 67510764);  
select * from registration ;
```

☒ Autocommit Rows 10 Save Run

```
insert into registration values(3452378 , to_date('19/04/20' , 'DD/MM/YY') , 'Rafikul Haq' , 98456733);  
insert into registration values(4567832 ,to_date('5/07/07' , 'DD/MM/YY'), 'Mostofa Kamal' , 87687659);  
insert into registration values(8762345 ,to_date('5/07/07' , 'DD/MM/YY') , 'Shamsul Haq' , 67510764);  
select * from registration ;
```

Results Explain Describe Saved SQL History

REG_BNO	BORROW_DATE	CHAIRMAN	PID_NO
3452378	04/19/2020	Rafikul Haq	98456733
4567832	07/05/2007	Mostofa Kamal	87687659
8762345	07/05/2007	Shamsul Haq	67510764

3 rows returned in 0.00 seconds [Download](#)

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Workspace: SJM User: SJM Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

Type here to search 86°F Light rain 12:41 AM 8/17/2021

7. PID:

```
insert into pid values(98456733 ,3760176515 , 'samia jahan' , 'R.K Mission Road' );  
insert into pid values(87687659 , 2740185152 , 'sadman mojumder' , 'avoy dash lane' );  
insert into pid values(67510764 , 3210176143 , 'tabassum rahman' , 'kurmitola');  
select * from pid;
```

☒ Autocommit Rows 10 Save Run

```
insert into pid values(98456733 ,3760176515 , 'samia jahan' , 'R.K Mission Road' );  
insert into pid values(87687659 , 2740185152 , 'sadman mojumder' , 'avoy dash lane' );  
insert into pid values(67510764 , 3210176143 , 'tabassum rahman' , 'kurmitola');  
  
select * from pid;
```

Results Explain Describe Saved SQL History

PID_NO	NID	NAME	ADDRESS
98456733	3760176515	samia jahan	R.K Mission Road
87687659	2740185152	sadman mojumder	avoy dash lane
67510764	3210176143	tabassum rahman	kurmitola

3 rows returned in 0.01 seconds [Download](#)

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8. BC:

```
insert into bc values(98456733 , 67543);  
insert into bc values(87687659 , 987654 );  
insert into bc values(67510764 , 65437);  
select * from bc;
```

Autocommit Rows 10 Save Run

```
insert into bc values(98456733 , 67543);  
insert into bc values(87687659 , 987654 );  
insert into bc values(67510764 , 65437);  
select * from bc;
```

Results Explain Describe Saved SQL History

PID_NO	BC_NO
98456733	67543
87687659	987654
67510764	65437

3 rows returned in 0.05 seconds [Download](#)

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Workspace: SIM User: SIM

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81°F 6:53 AM 8/17/2021

Sub –Query

1. Question: Display the maximum home area.

Query : select *
From tax
where home_area = (select max(home_area)
from tax);

```
select *  
From tax  
where home_area = (select max(home_area)  
from tax);
```

Results Explain Describe Saved SQL History

HOLDING_NO	HOME_AREA	AMOUNT	REG_BNO
72	1893.23	8324.75	8762345

1 rows returned in 0.05 seconds [Download](#)

Activate Windows

Go to Settings to activate Windows.

Application Express 4.0.2.00.09

Workspaces: SIM | User: SIM

Language: en | Copyright © 1999-2010, Oracle. All rights reserved.



Type here to search



2. Question : Display third min tax money

Query : select distinct min(amount)

from tax

where amount < (select min (amount)

from tax

where amount < (select min(amount)

from tax));

```
select distinct min(amount)
  from tax
 where amount < (select min (amount)
                  from tax
                  where amount < (select min(amount)
                                    from tax));
```

Results Explain Describe Saved SQL History

MIN(AMOUNT)

-

1 rows returned in 0.12 seconds

[Download](#)

Activate Windows

Go to Settings to activate Windows.

Application Express 4.0.2.00.09

Workspace: SIM User: SIM

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Windows search bar: Type here to search



System tray area showing weather (81°F), time (10:00 AM), date (8/17/2021), and notification icons.

3. Question : Display all information of samia jahan

Query: select *

from person

where nid = (select nid

from person

where name = 'samia jahan')

```
select *  
  from person  
 where nid = (select nid  
              from person  
              where name = 'samia jahan')
```

Results Explain Describe Saved SQL History

NID	NAME	ADDRESS
3760176515	samia jahan	R.K Mission Road

1 rows returned in 0.05 seconds

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Windows taskbar showing search bar, task view, and application icons (Edge, File Explorer, Mail, Teams, Chrome, Word, Excel). System tray shows 81°F, 10:13 AM, 8/17/2021, and notification icons.

4. Question: Display all names who are not belongs to Dhaka.

Query: select *
from person , residence
where city in (select city
from residence
where city != 'Dhaka');

```
select name  
  from person , residence  
 where city in (select city  
                from residence  
                where city != 'Dhaka');
```

Results Explain Describe Saved SQL History

NAME
samia jahan
sadman mojumder
tabassum rahman

3 rows returned in 0.00 seconds

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Join

1. Equi-join :

```
select Phone.nid, contact_no, Person.name  
from Phone, Person  
where Phone.nid=Person.nid;
```

```
select Phone.nid, contact_no, Person.name  
from Phone, Person  
where Phone.nid=Person.nid;
```

Results Explain Describe Saved SQL History

NID	CONTACT_NO	NAME
3760176515	1775935142	samia jahan
2740185152	1671665399	sadman mojumder
3210176143	1711155080	tabassum rahman

3 rows returned in 0.08 seconds

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2. Outer Join:

```
select Person.name, Phone.nid, Phone.contact_no
From Person, Phone
Where Phone.nid(+) = Person.nid
order by Phone.nid;
```

```
select Person.name, Phone.nid, Phone.contact_no
From Person, Phone
Where Phone.nid(+) = Person.nid
order by Phone.nid;
```

Results Explain Describe Saved SQL History

NAME	NID	CONTACT_NO
sadman mojumder	2740185152	1671665399
tabassum rahman	3210176143	1711155080
samia jahan	3760176515	1775935142

3 rows returned in 0.04 seconds [Download](#)

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Windows taskbar showing search bar, task view, and various application icons (Edge, File Explorer, Mail, etc.). System tray shows weather (81°F), date (8/17/2021), and time (10:54 AM).

3. Self join:

```
select p1.* , p2.address  
  from person p1 , person p2  
 where p1.nid= p2.nid
```

```
select p1.* , p2.address  
  from person p1 , person p2  
 where p1.nid= p2.nid
```

Results Explain Describe Saved SQL History

NID	NAME	ADDRESS	ADDRESS
3760176515	samia jahan	R.K Mission Road	R.K Mission Road
2740185152	sadman mojumder	avoy dash lane	avoy dash lane
3210176143	tabassum rahman	kurmitola	kurmitola

3 rows returned in 0.01 seconds [Download](#)

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View (Complex view)

1. **Question:** Create a view called birth_recover base on the person registration book number , name and contact number from the book and phone table.

Querey : create view birth_recover (serial , name , phone_no)

as select b.reg_bno , b.name , p.contact_no

from book b , phone p

where b.nid = p.nid;

select * from birth_recover;

```
create view birth_recover (serial , name , phone_no)
as select b.reg_bno , b.name , p.contact_no
from book b , phone p
where b.nid = p.nid;
select * from birth_recover;
```

Results Explain Describe Saved SQL History

SERIAL	NAME	PHONE_NO
3452378	samia jahan	1775935142
4567832	sadman mojumder	1671665399
8762345	tabassum rahman	1711155080

3 rows returned in 0.12 seconds [Download](#)

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