RECOVERY OF LOST BIRTH CERTIFICATE

Group : 07

GROUP MEMBERS:

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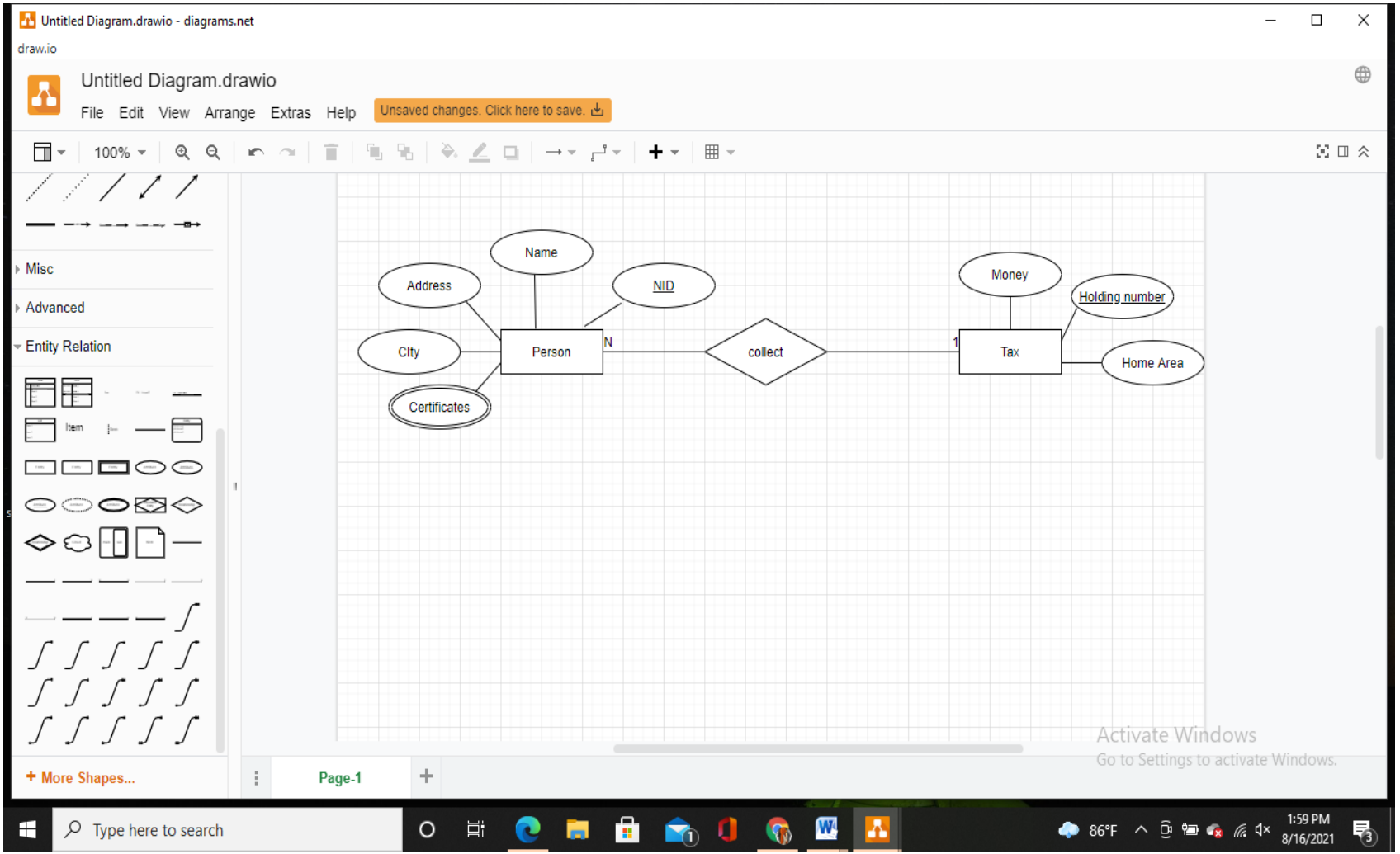
n

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.

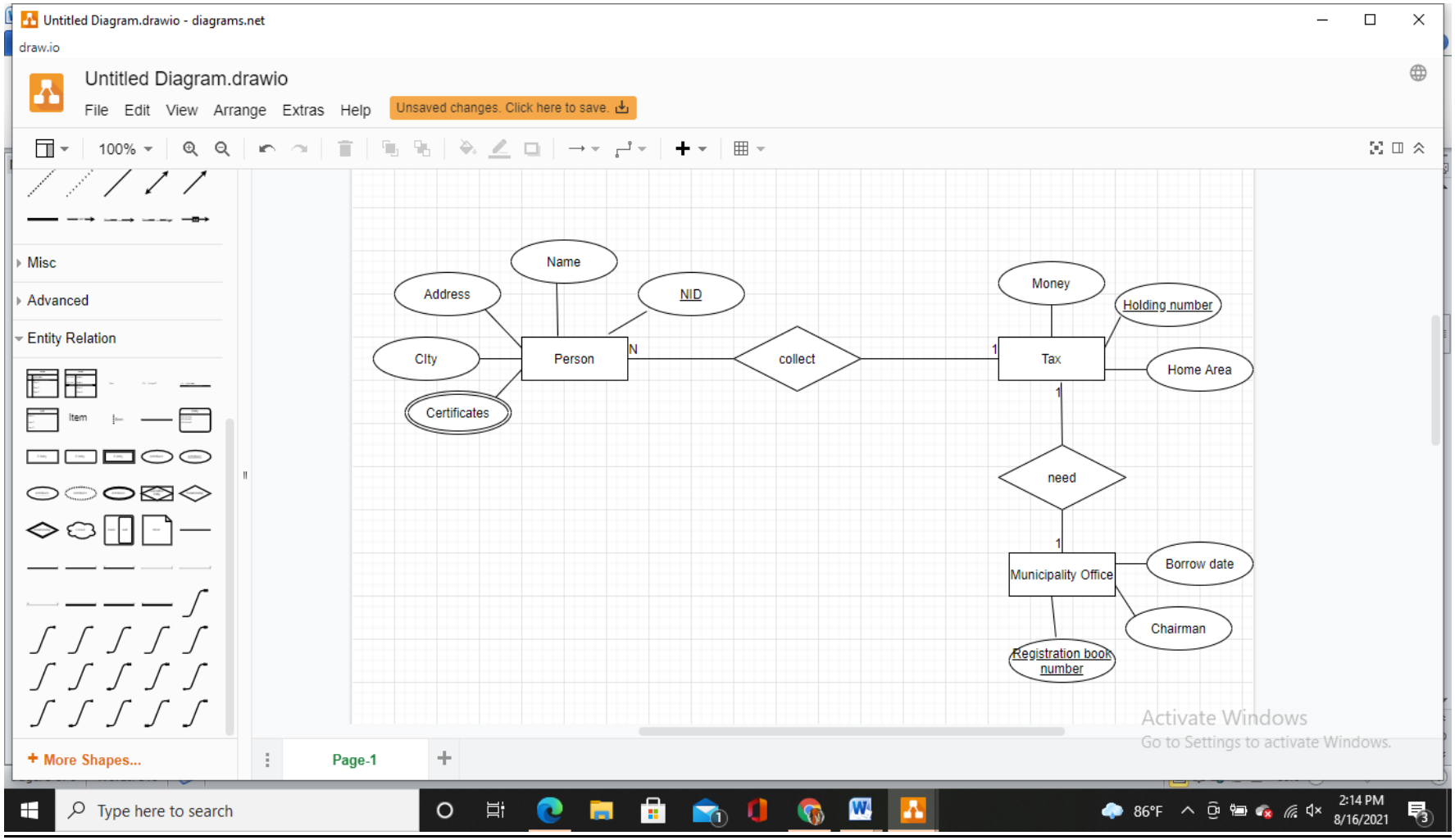
ER Diagram

Screenshot – 01

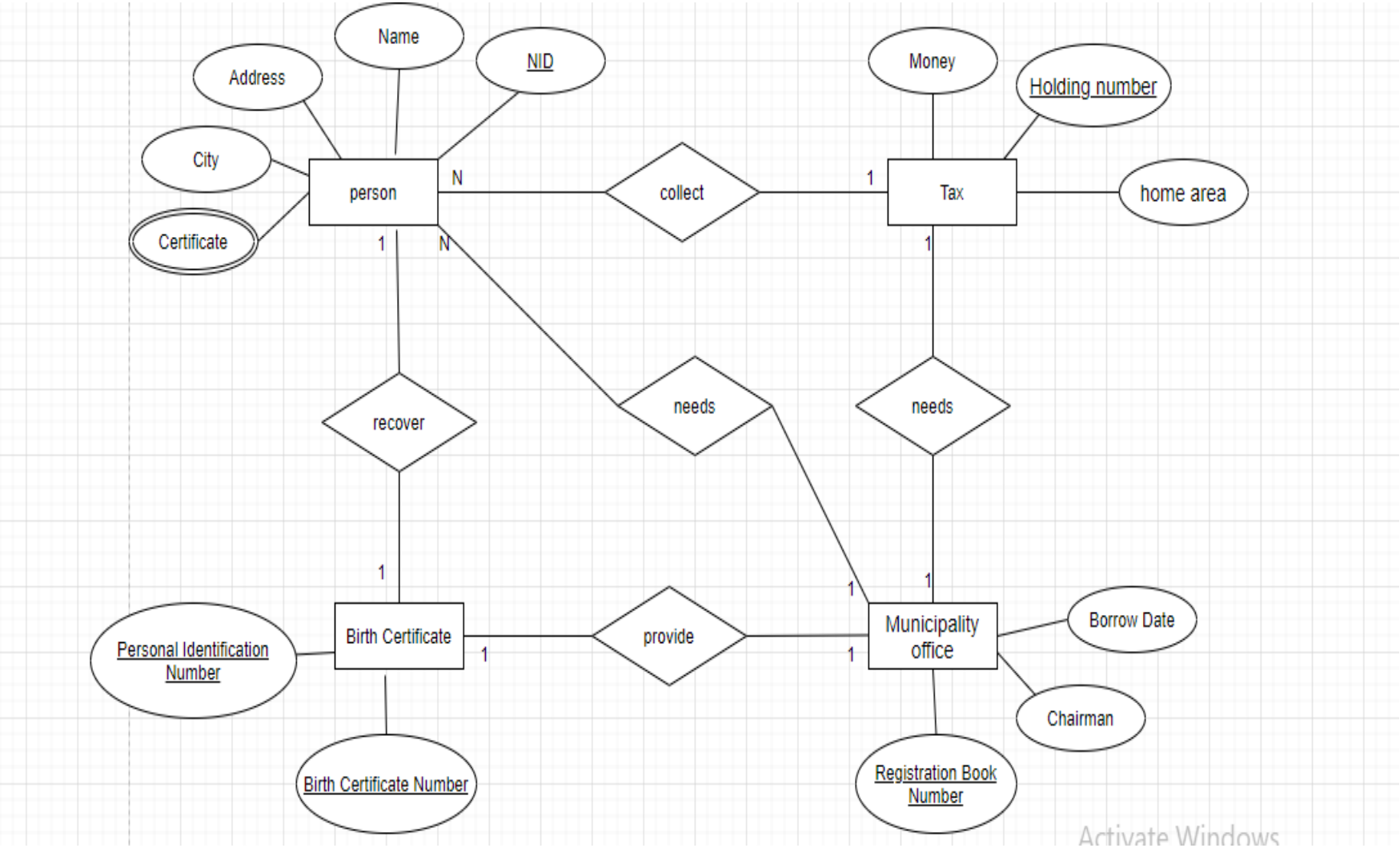


ER Diagram

Screenshot – 02



ER Diagram


Name
NID
Address
City
Certificate
person
N
collect
1
Tax
Money
Holding number
home area
1
N
1
recover
needs
needs
1
1
1
1
Personal Identification Number
Birth Certificate
1
provide
1
Municipality office
Borrow Date
Chairman
Birth Certificate Number
Registration Book Number
Activate Windows

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

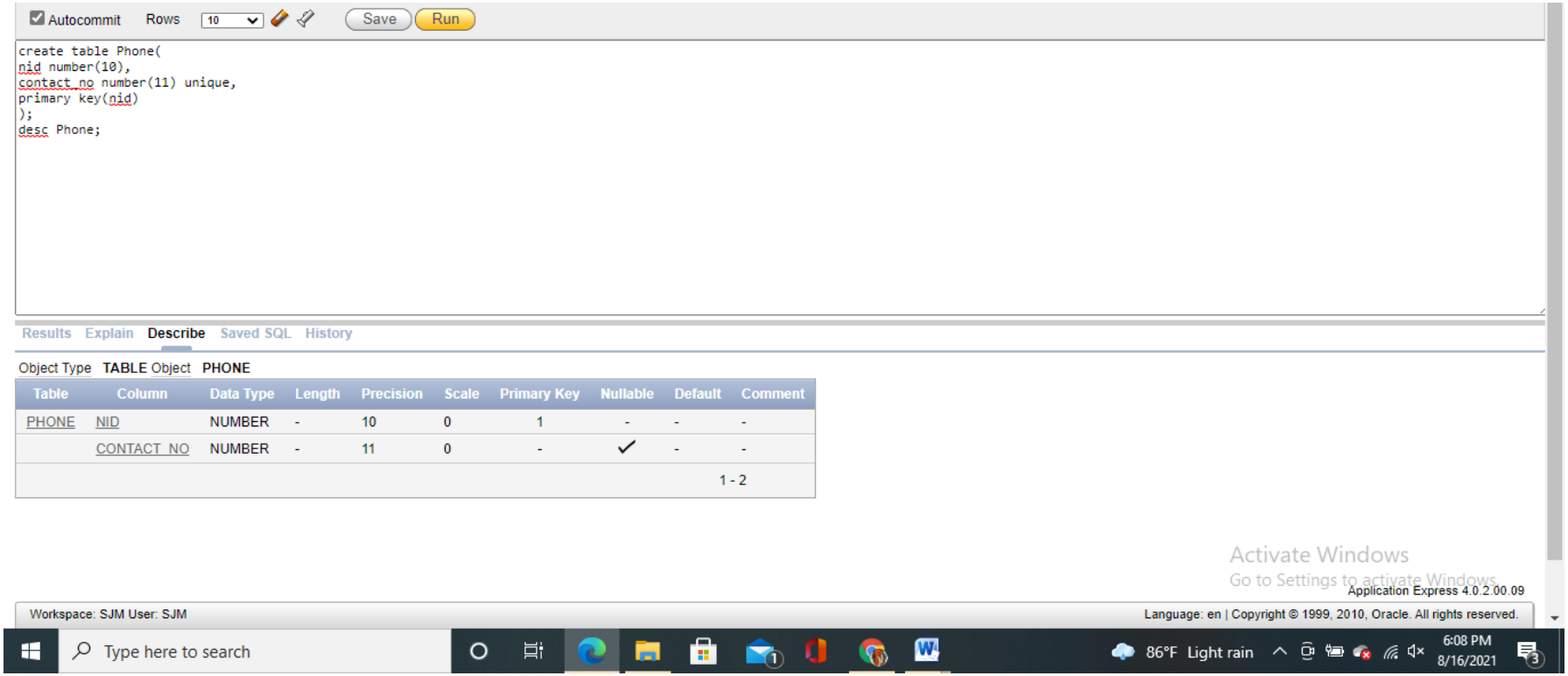
7th: nid , name, address , pid_no

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;
```



2. **Person:**

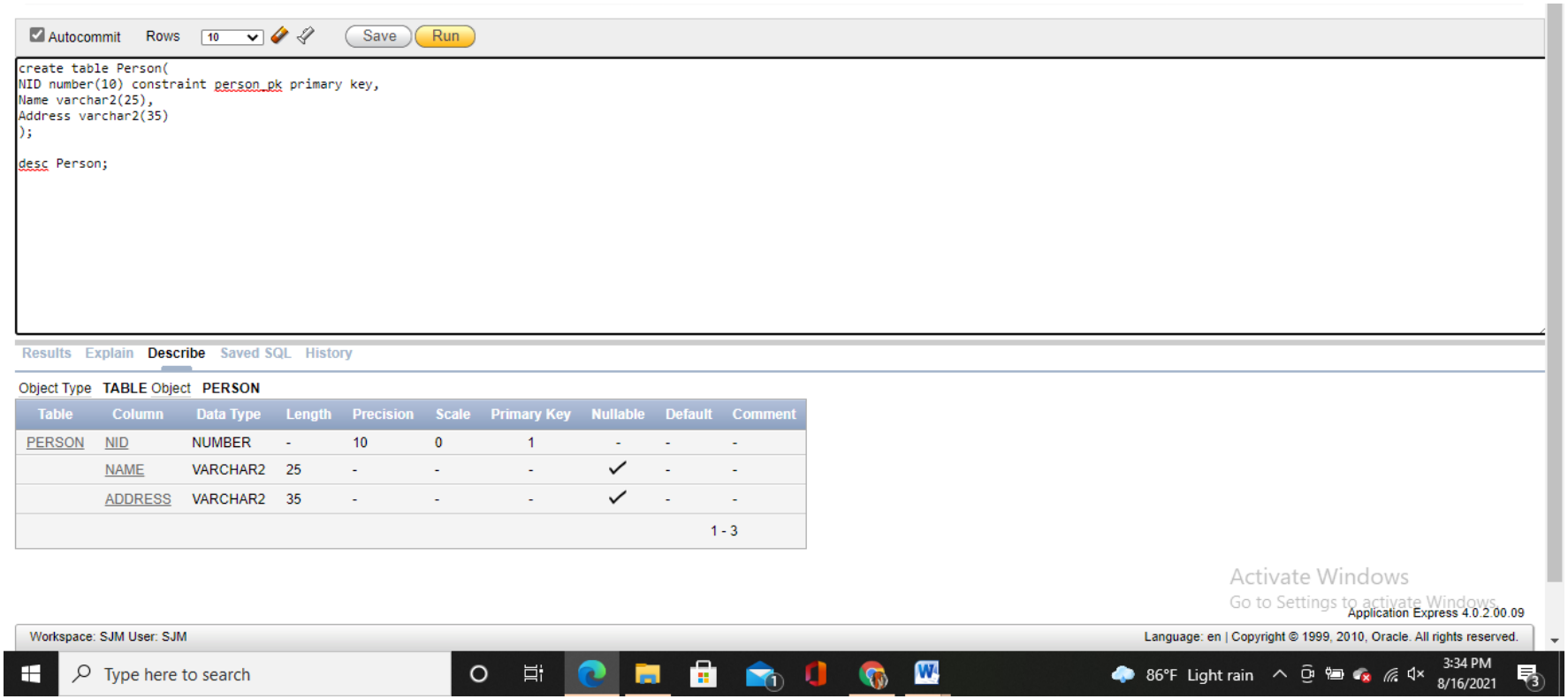
create table Person(

NID number(10) constraint person_pk primary key,

Name varchar2(25),

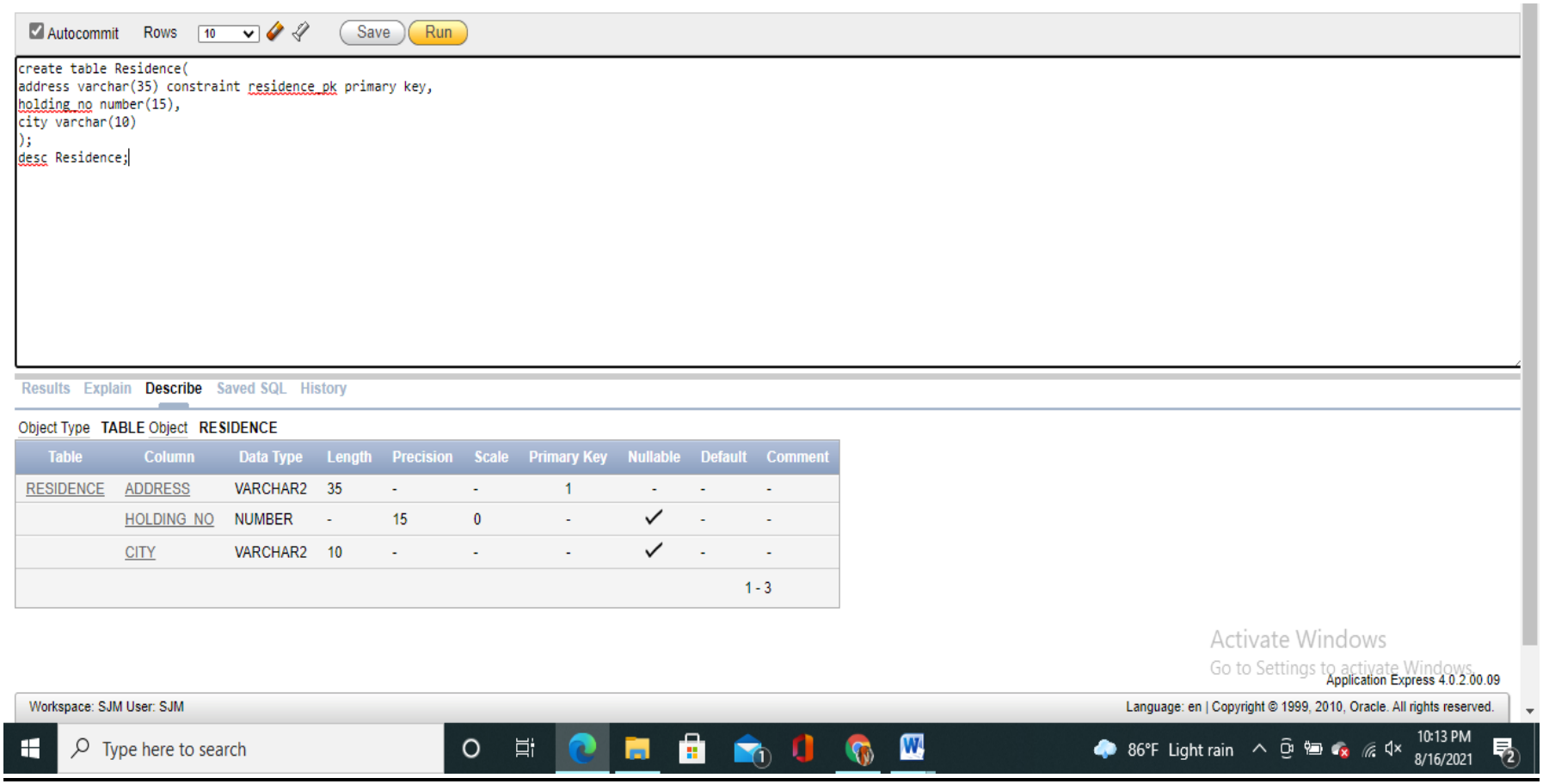
Address varchar2(35)

);desc Person;



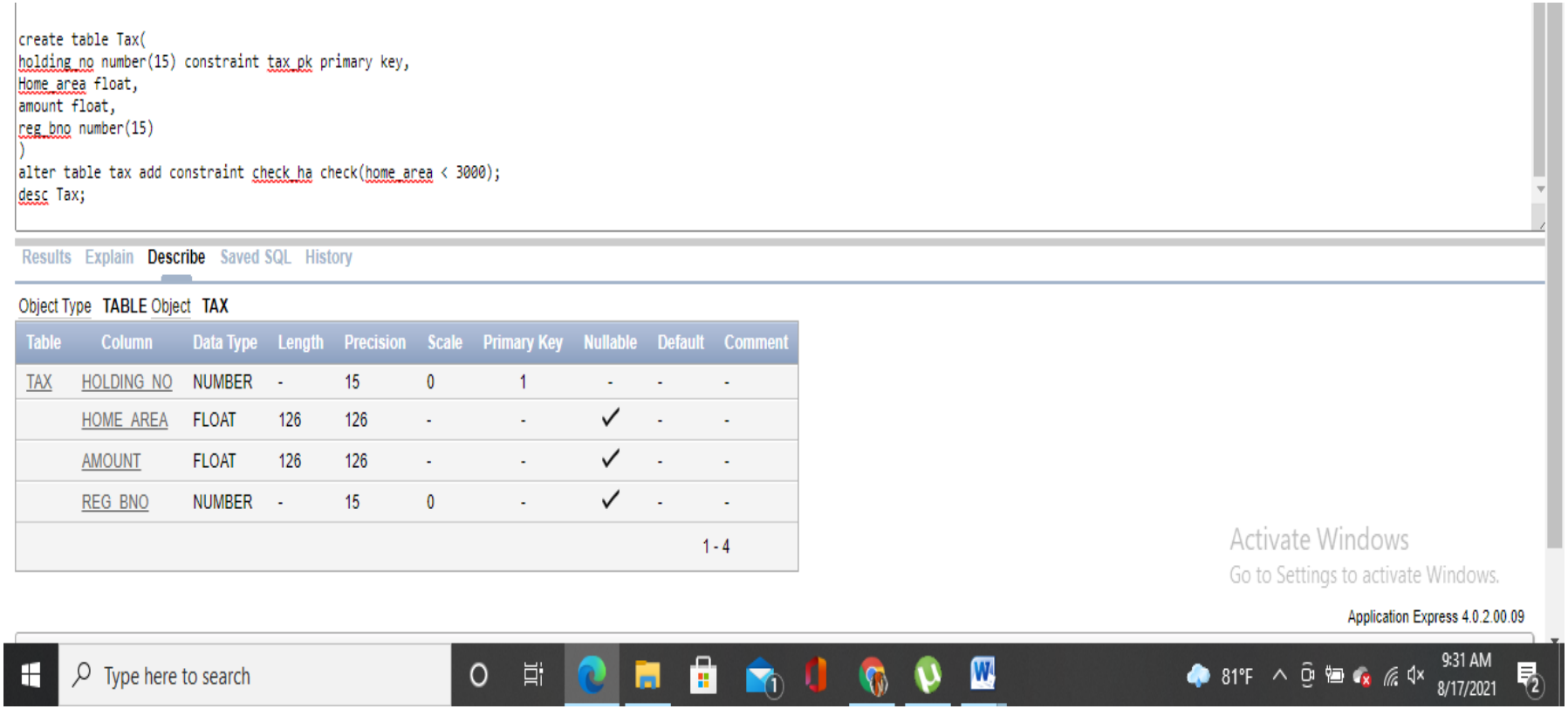
3. Residence :

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



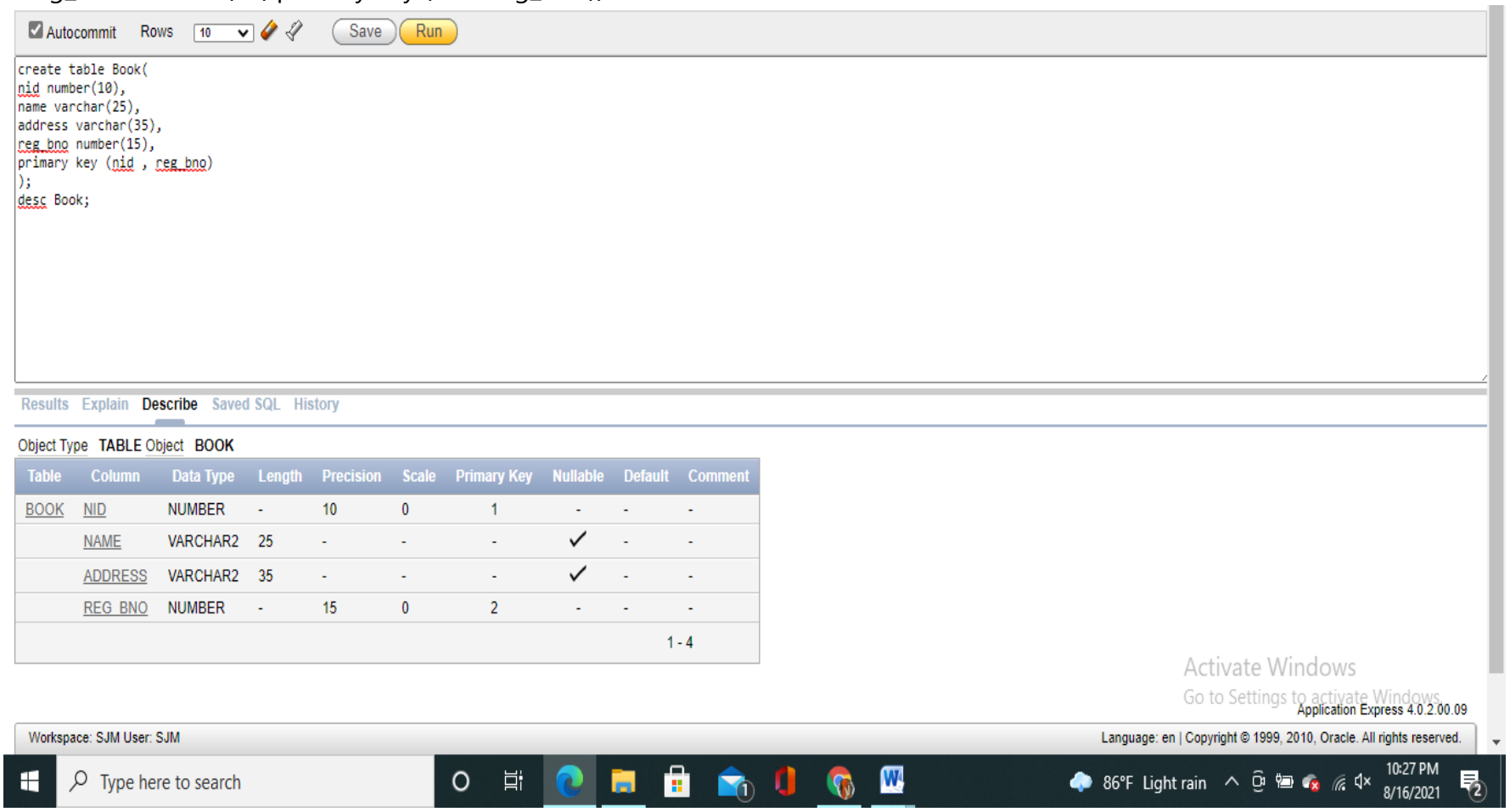
4. Tax:

```
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;
```



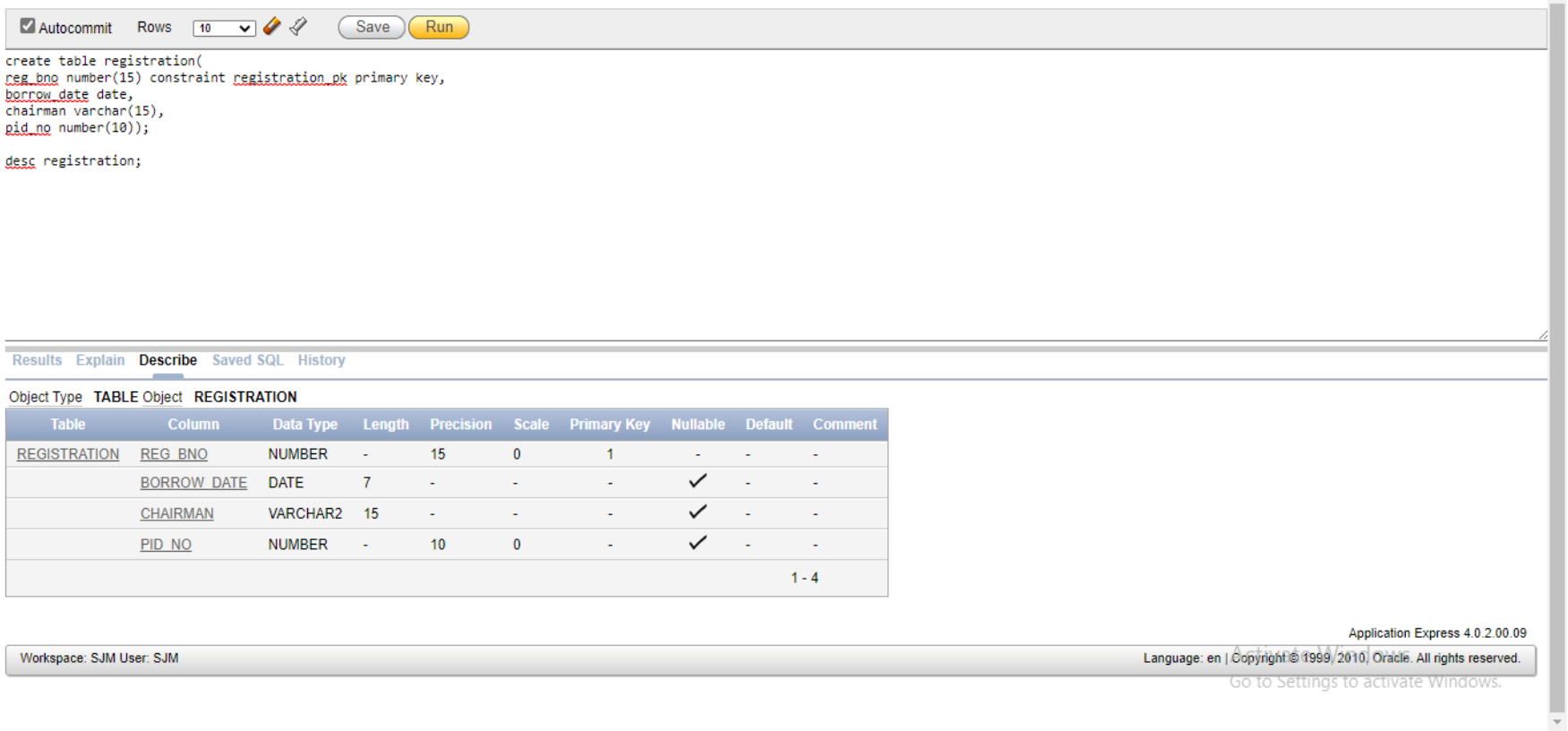
5. **Book:**

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



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

Application Express 4.0.2.00.09

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

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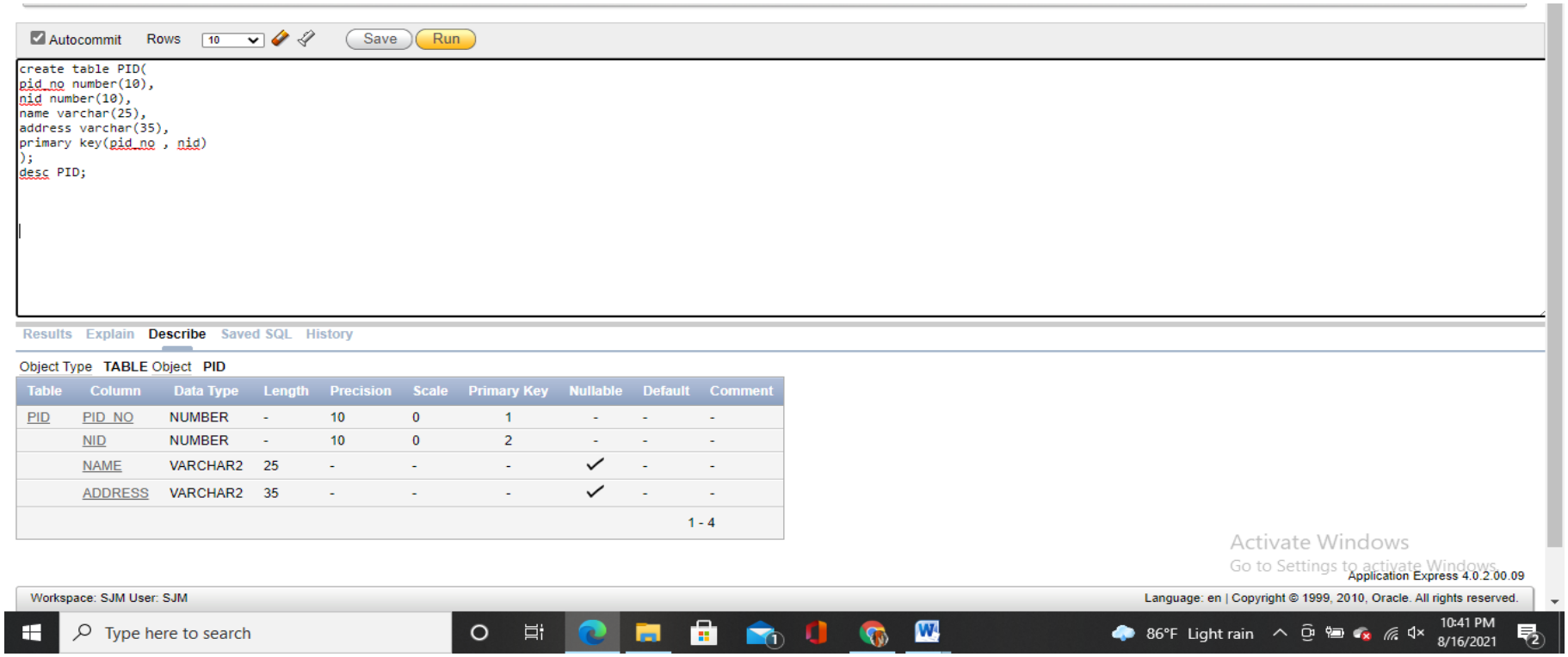
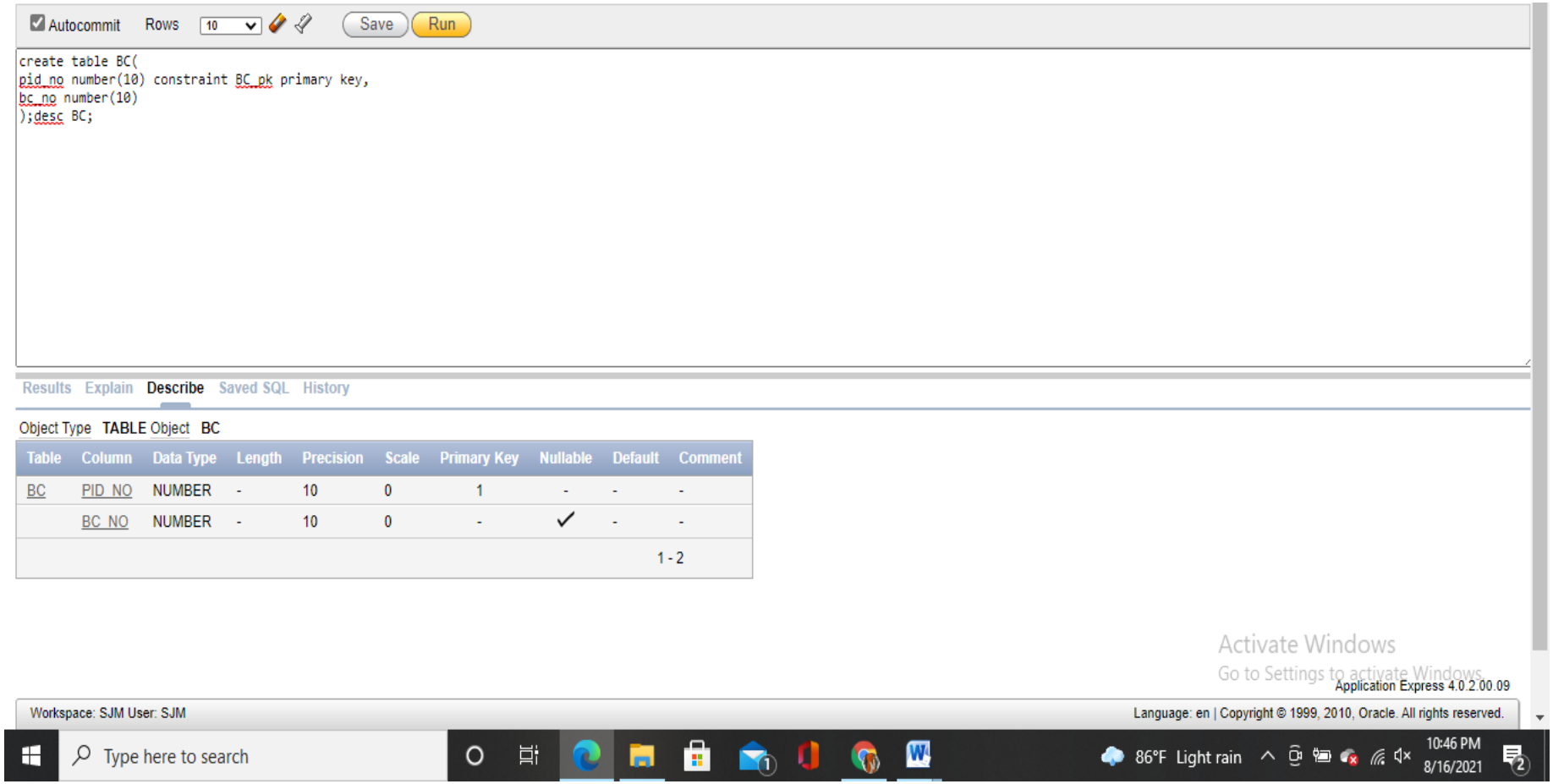
7. PID:

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



8. BC:

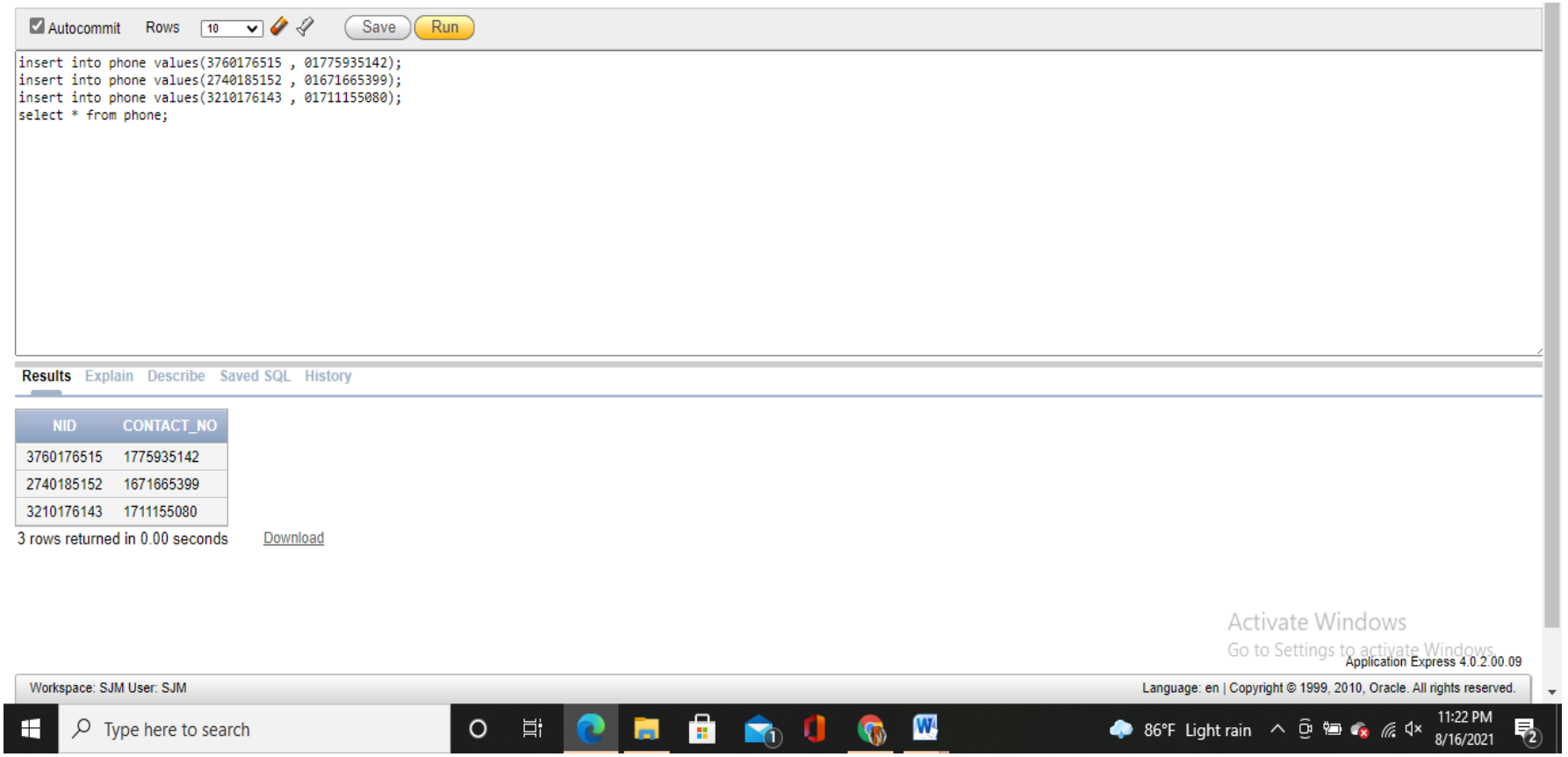
```
create table BC(
pid_no number(10) constraint BC_pk primary key,
bc_no number(10)
);desc BC;
```



Data Insertion

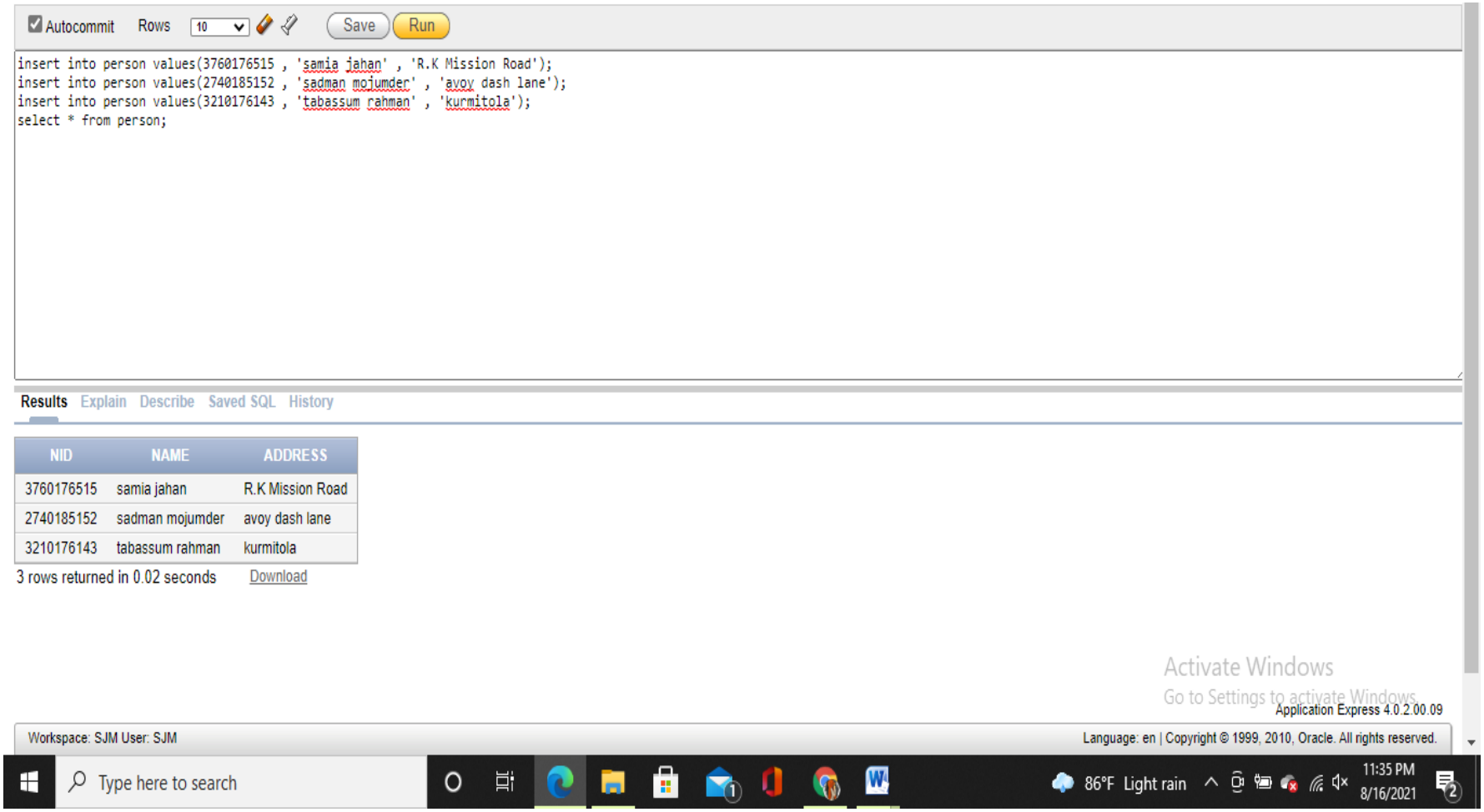
1. Phone :

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



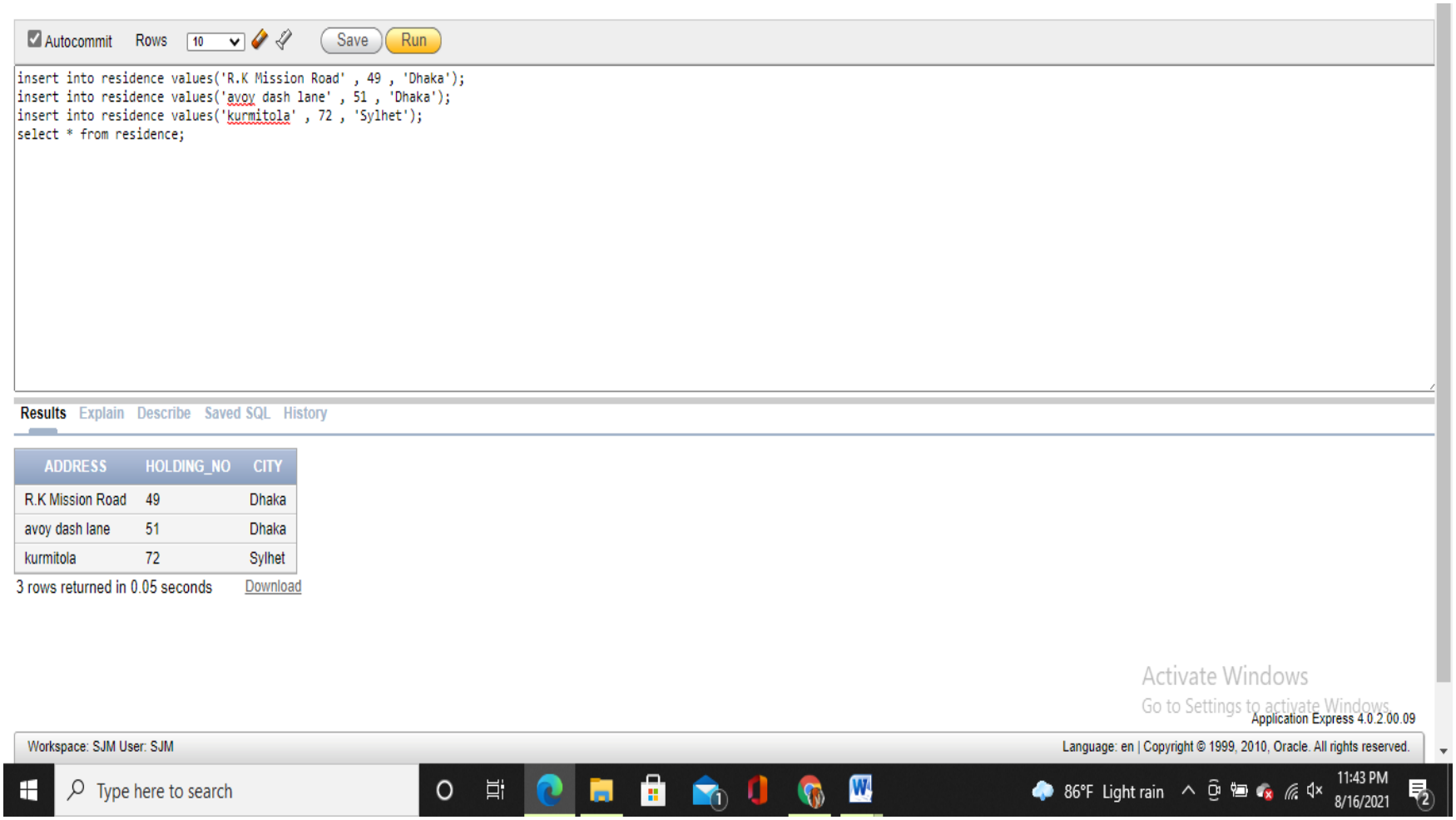
2. Person:

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;



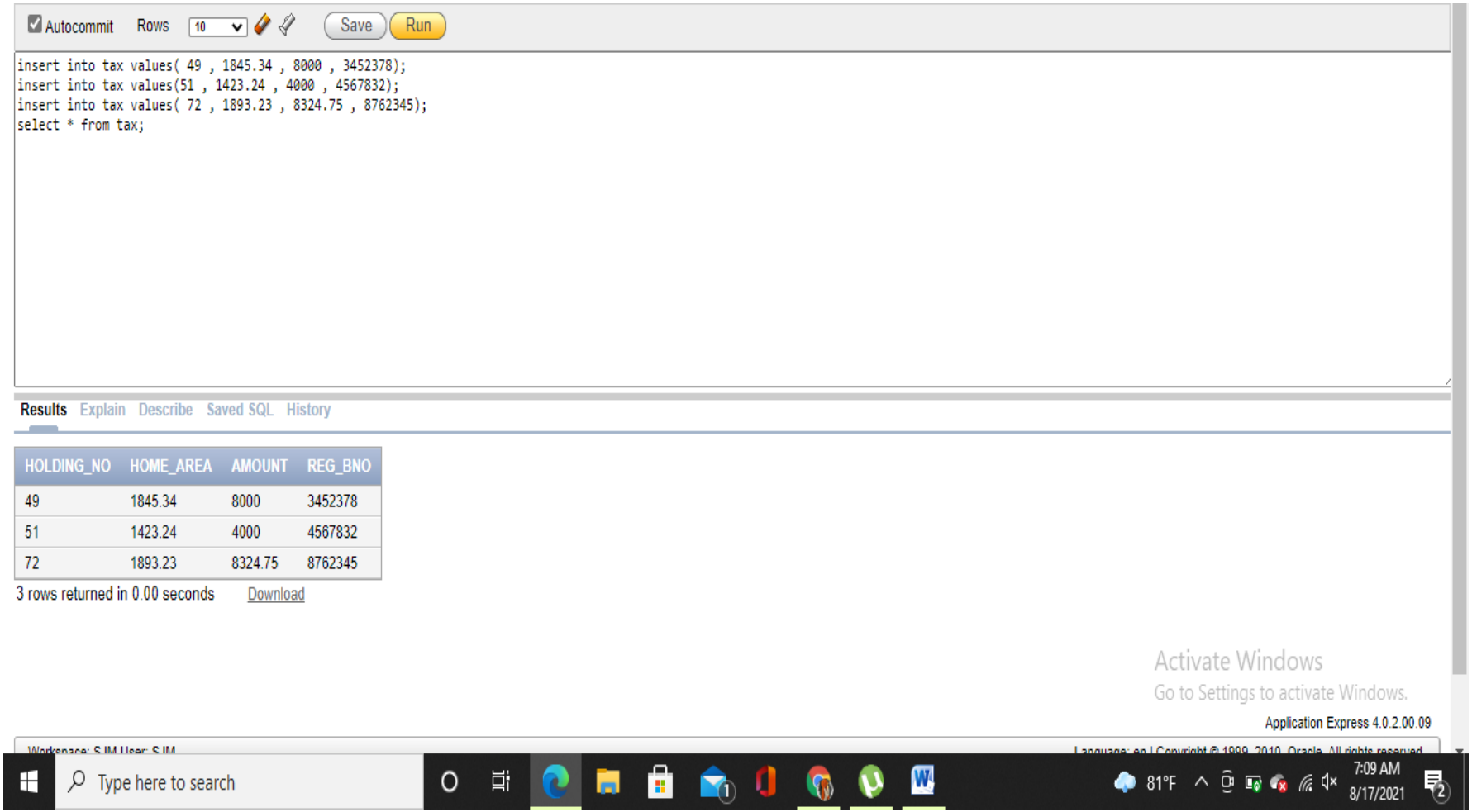
3. **Residence:**

```
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;
```



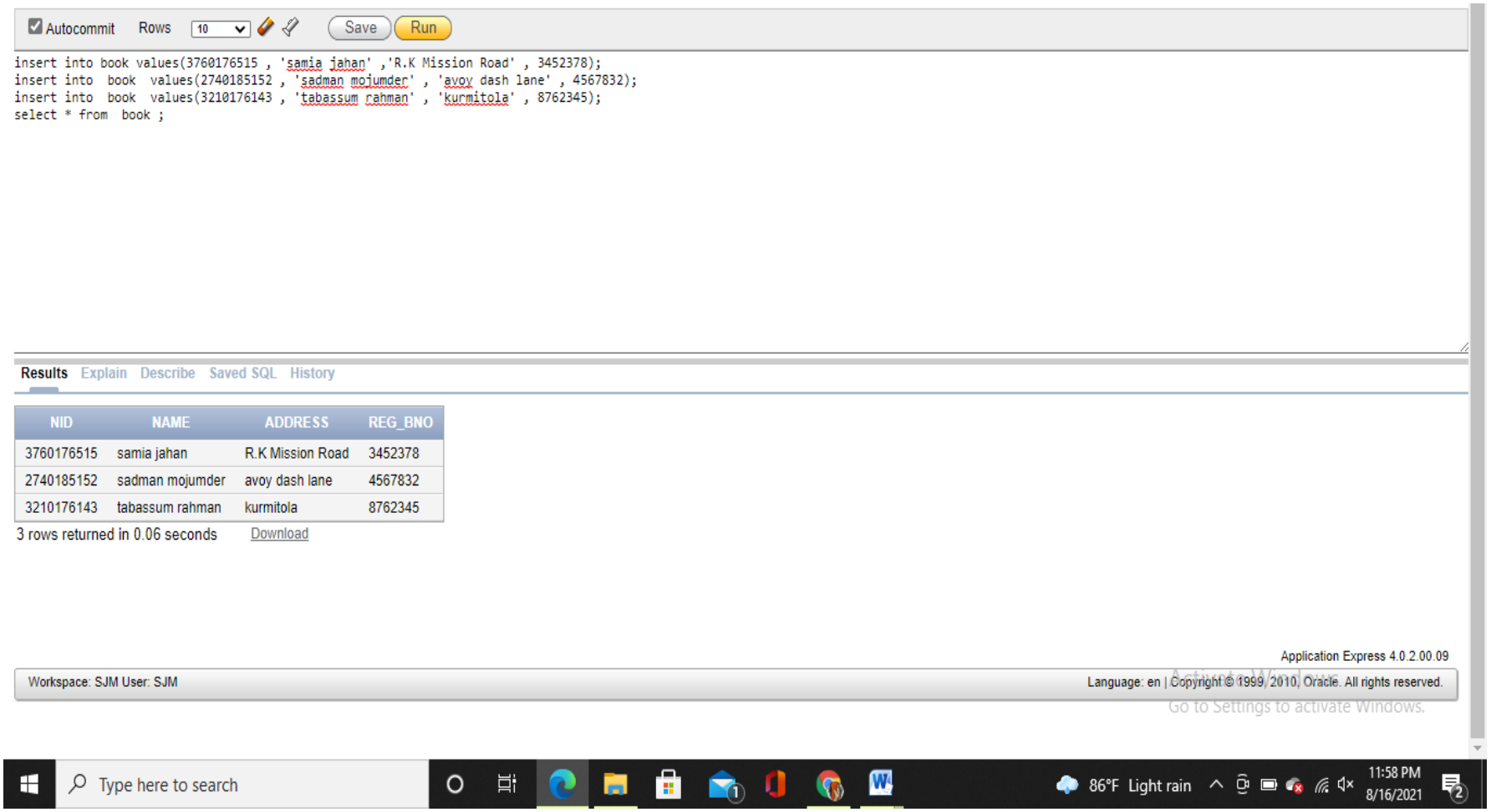
4. **Tax:**

```
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;
```



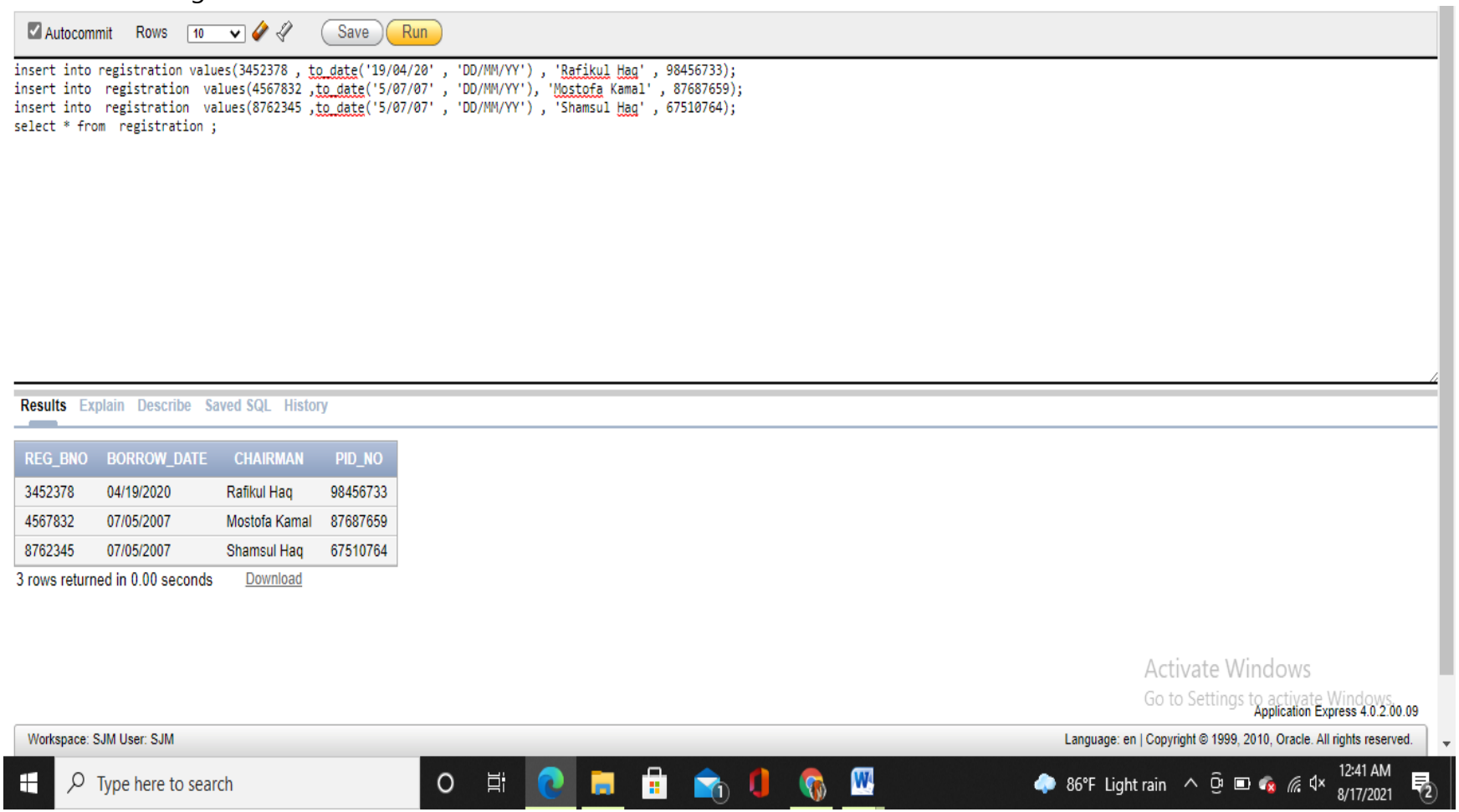
5. **Book :**

```
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 ;
```



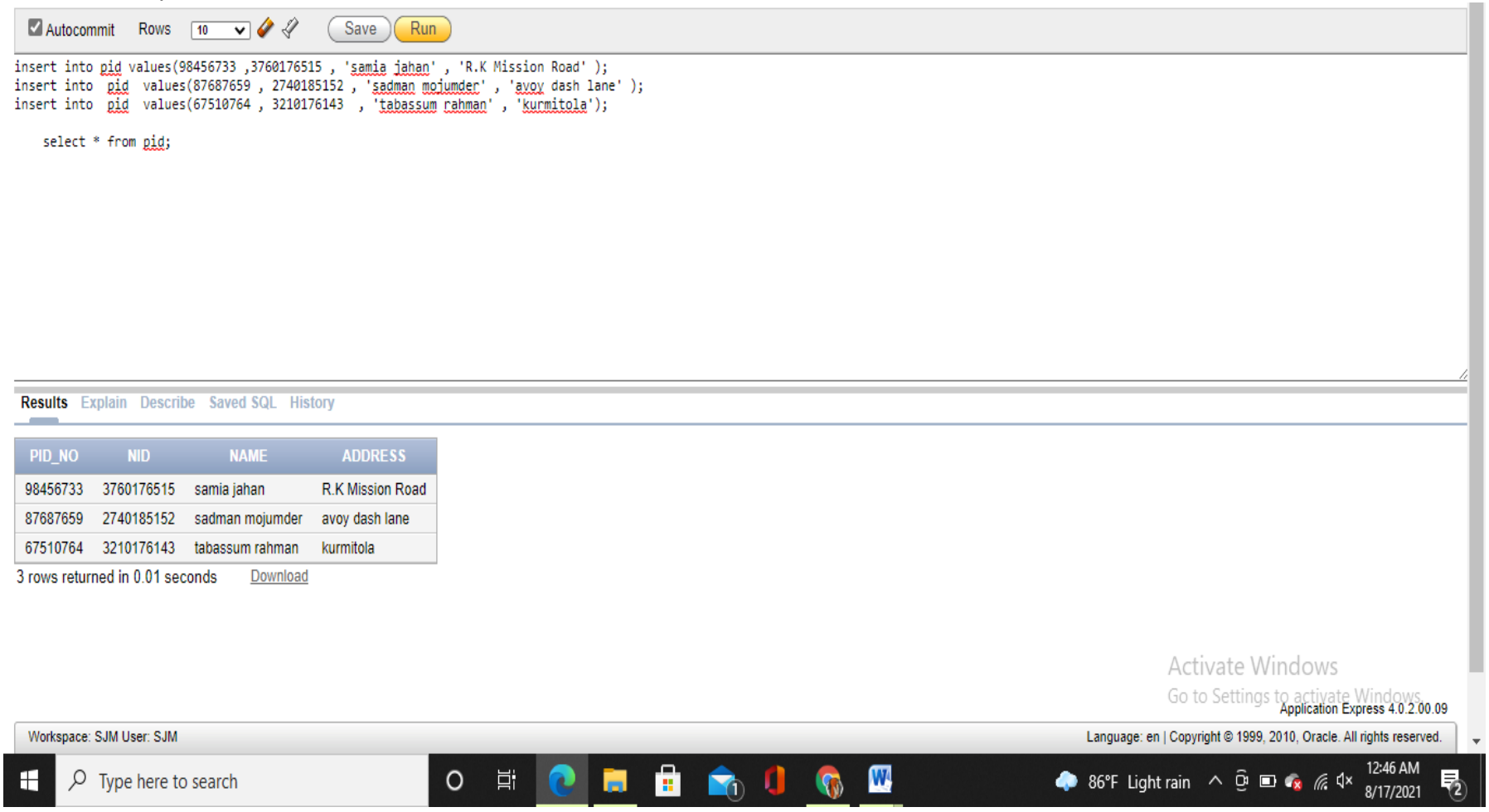
6. Registration:

```
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 ;
```



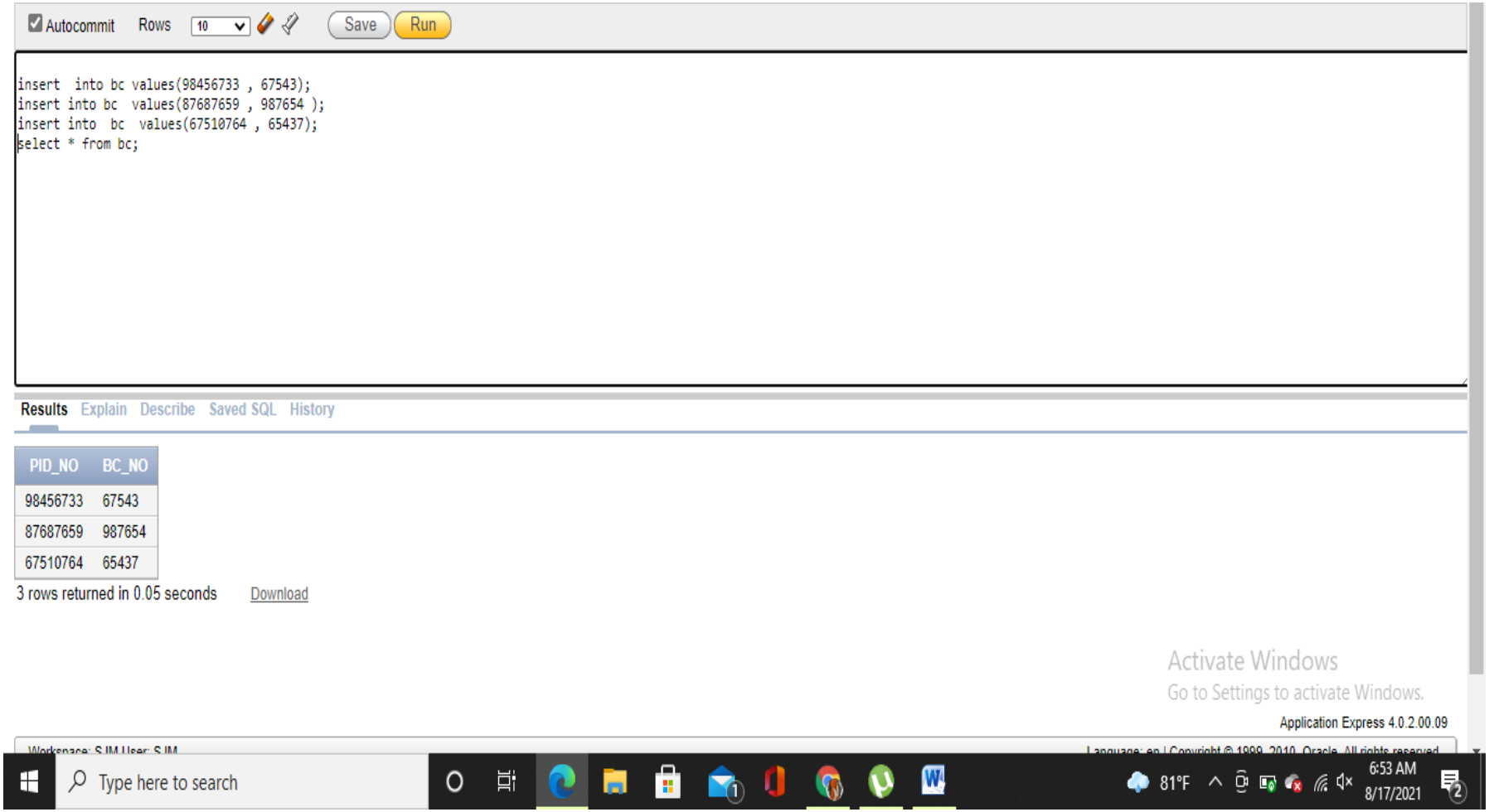
7. PID:

```
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;
```



8. BC:

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



Sub –Querey

1. **Question:** Display the maximum home area.

Querey :

```
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

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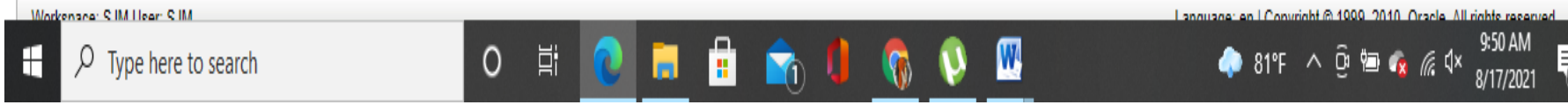
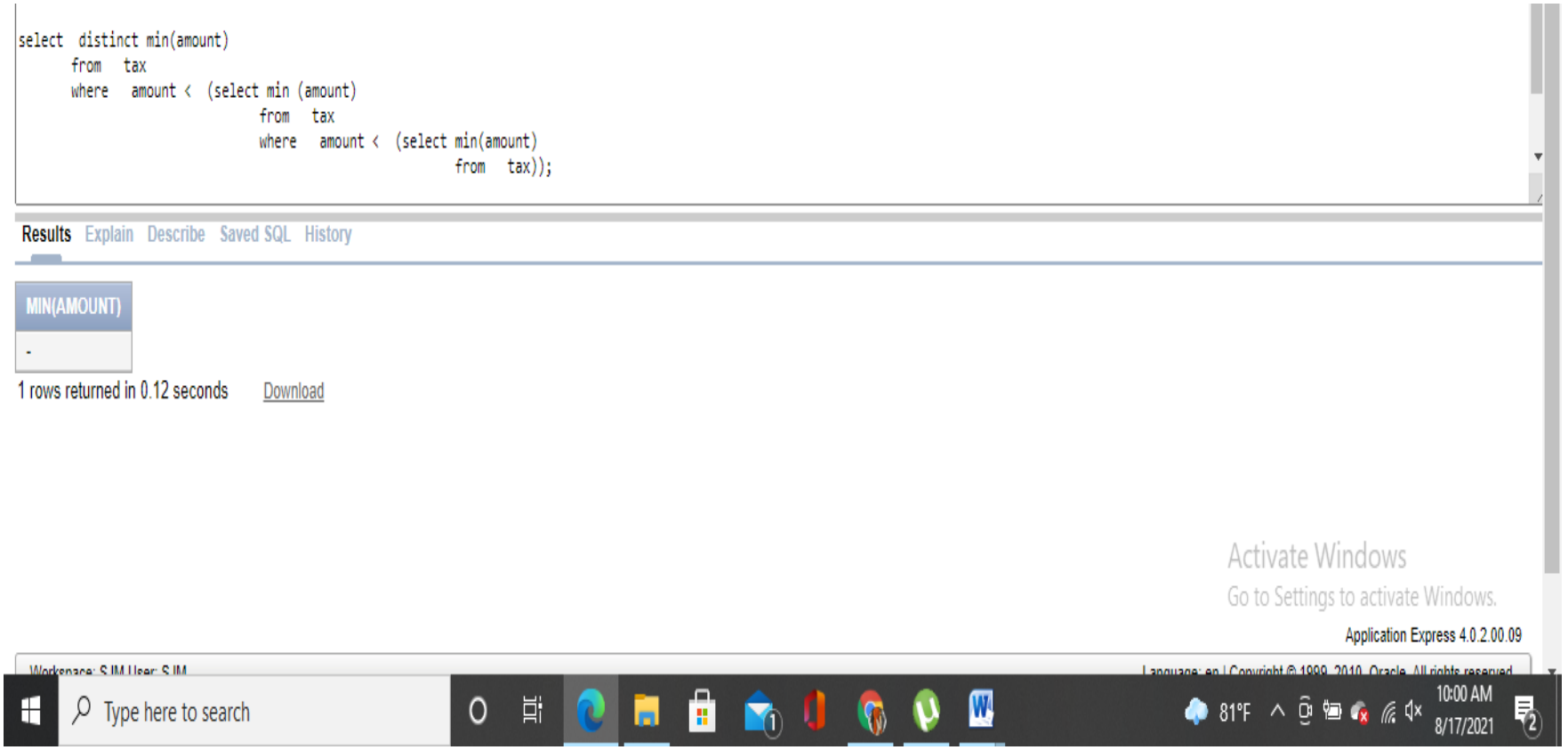


2. **Question :** Display third min tax money

Querey :

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



3. **Question :** Display all information of samia jahan

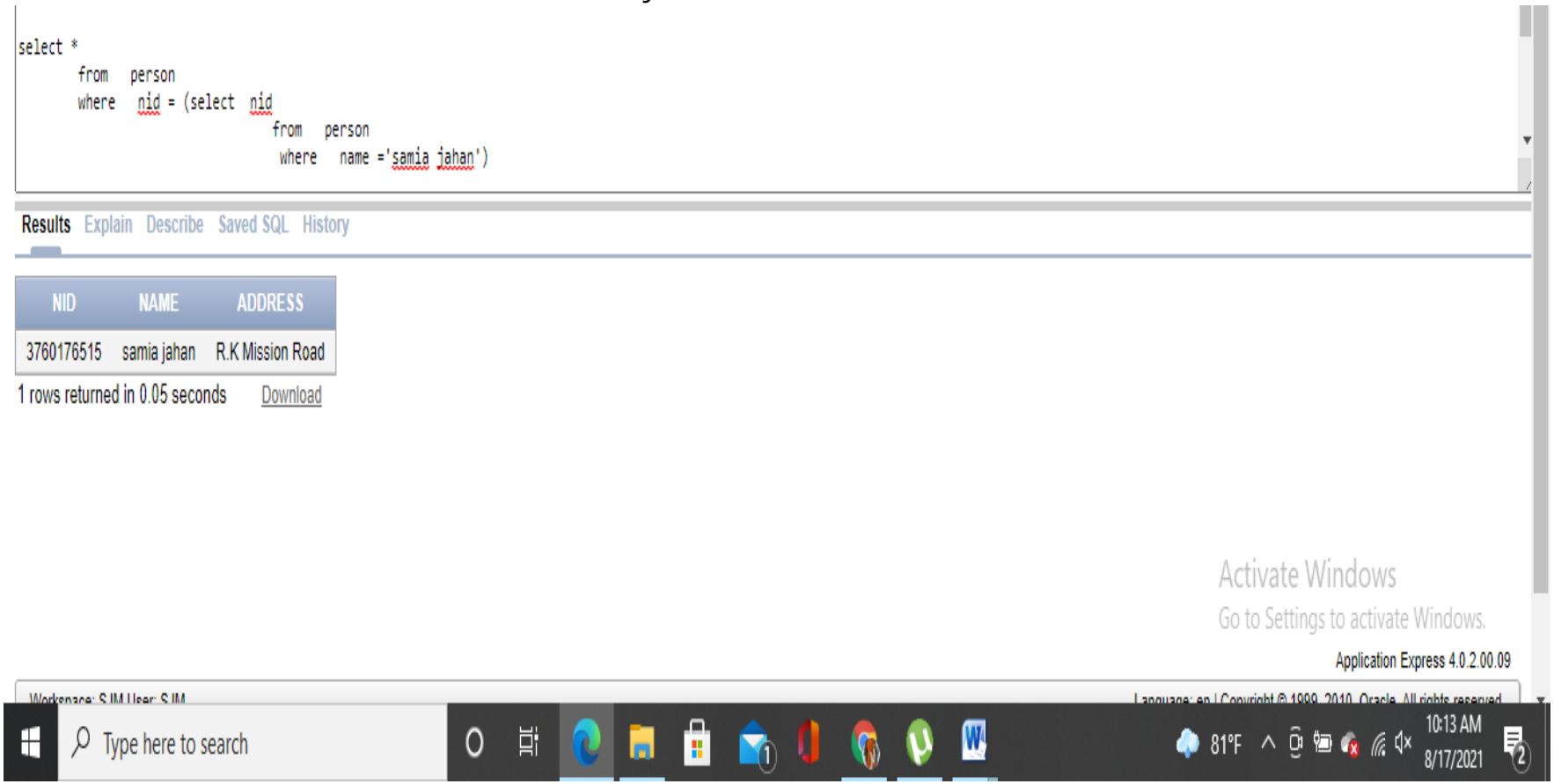
Querey: select *

from person

where nid = (select nid

from person

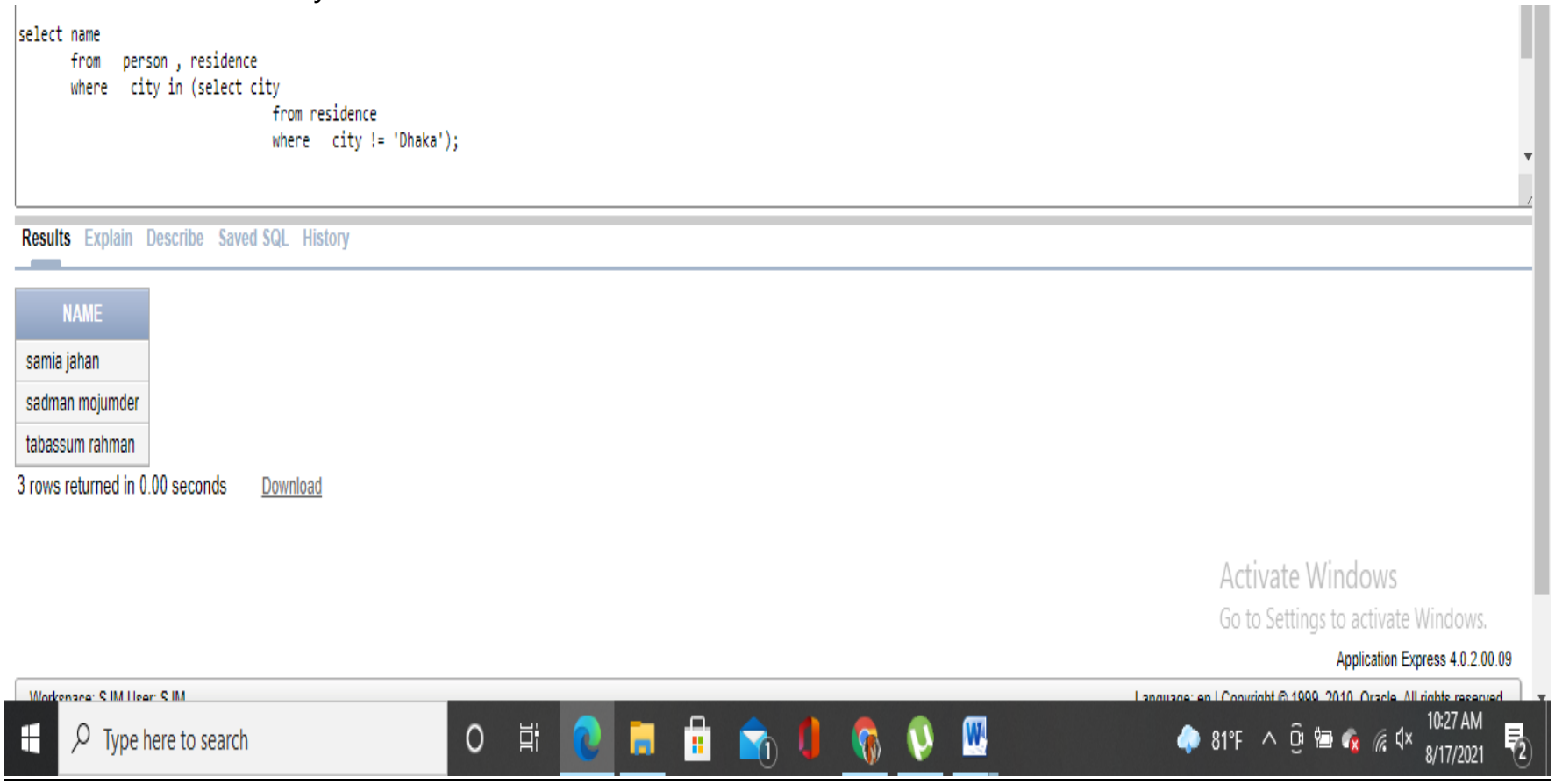
where name ='samia jahan')



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

Querey: select *

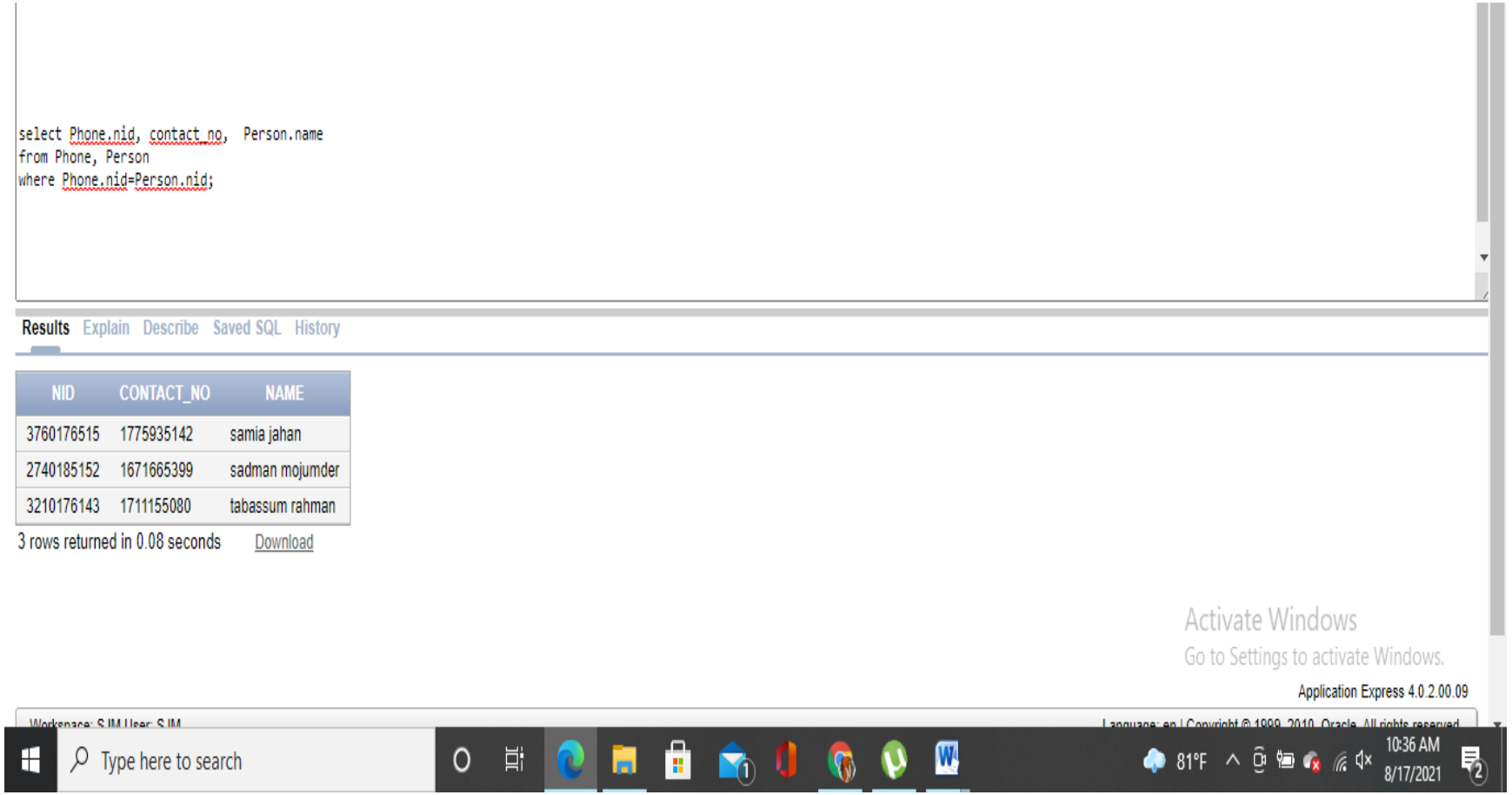
from person , residence
where city in (select city
from residence
where city != 'Dhaka');



Join

1. Equi-join :

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



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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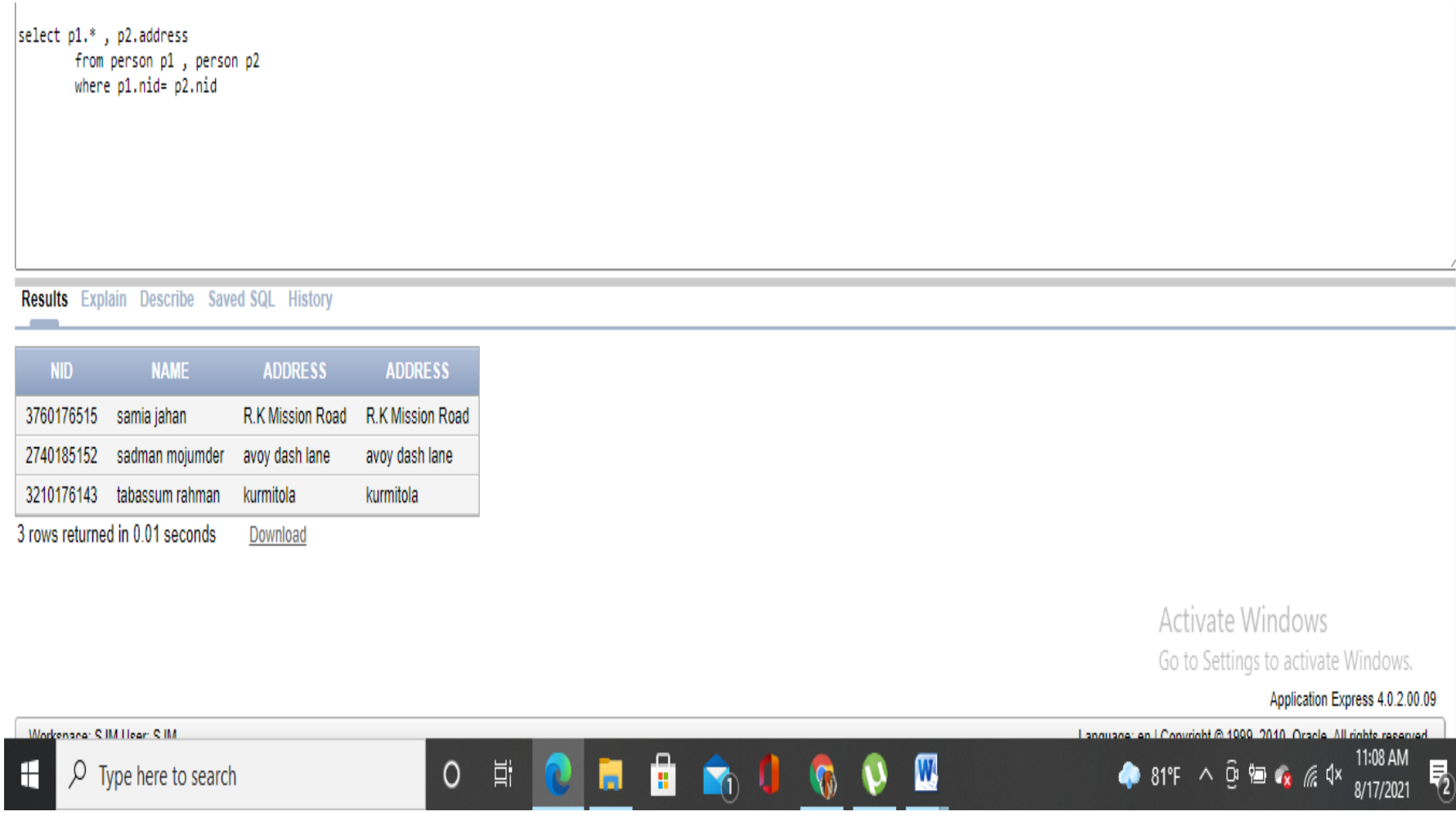
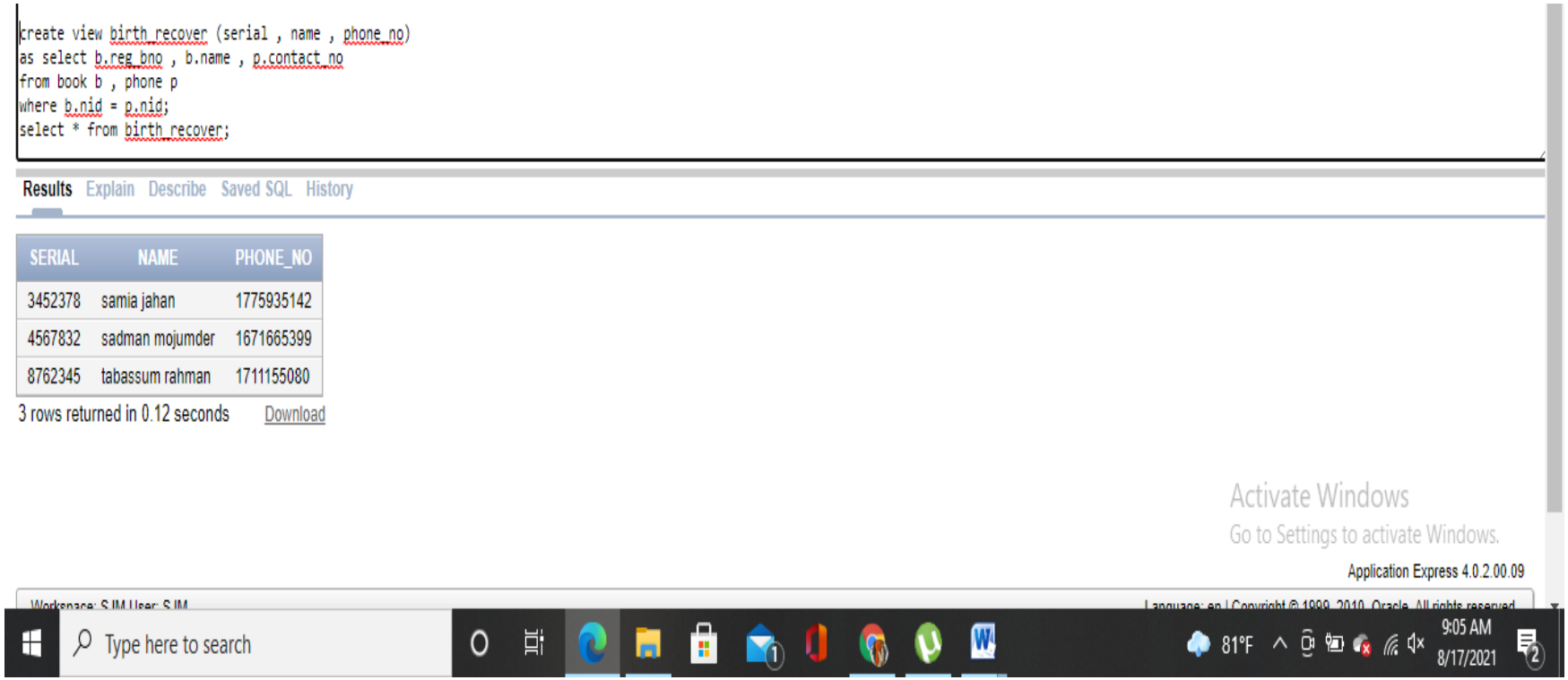
3. Self join:

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



View (Complex view)

1. Question: Create a view called birth_recorver 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;