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Group

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“*Rent Management System*”



AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH

(AIUB)

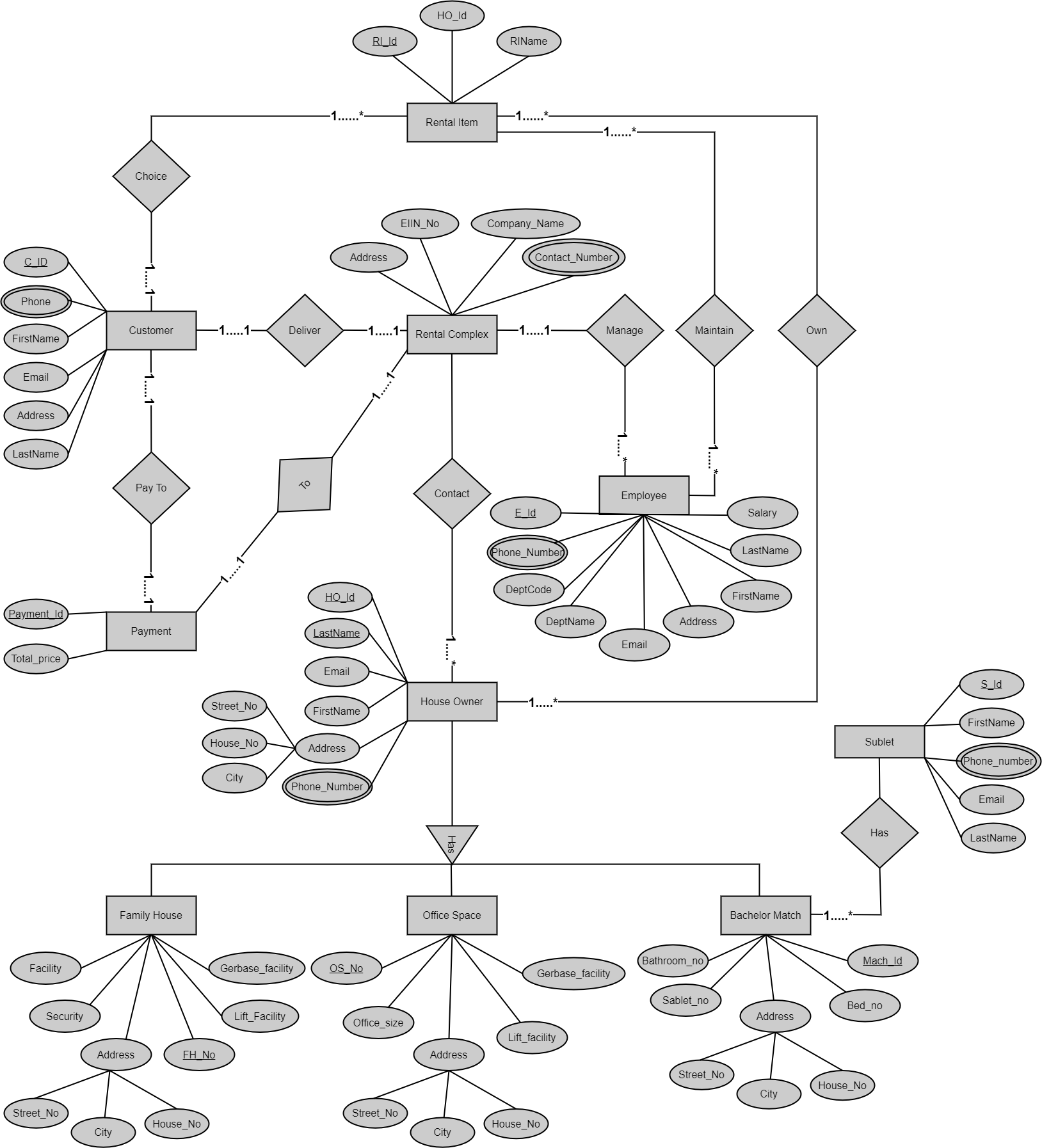
Introduction to Database

  Semester: Fall 2022-23

**Scenario:**

In a House Rent Management System Customer will choice their suitable houses that House Owners put in the management system.

In House Rent Management System, a company will be identified by EIIN Number. House Rent Management System Manage Many Employees. Employees can be identified by Eid Number. Employees have Department, Salary, Name. Employee Maintain Rental Items. Rental Item has Unique RI\_id. Customer has CU\_id, Firstname, Lastname, Email, Address. Customer choice Rental Item as they Want. Whatever Rental Item Customer Chose it will deliverd from House Rent Management System. Customer pay Payment. To identify payment individually Payment has Payment\_id. This Payment goes to house Rent Management System. House Owners Contact House Rent Management System to put up their house for rent. House Owner has uniquely identified HO\_id. It also has Address, FirstName, LastName, Email. House Owner has 3 type of houses Family House, Office Space, Bachelor Mech. Each Rental Item has Unique FO\_id, OS\_id, BM\_id. Bachelor Mech has many Sublets. Sublet has S\_id to uniquely identify it.

**ER-Diagram:**

**Normalization:**

***UNF:*** RENTAL COMPLEX MANAGE EMPLOYEE

MANAGE (EIIN\_NO, AUTHORITY, PHONE\_NO, Address, E\_ID, City, Email, FIRST\_name, LAST\_NAME, DEPT\_name, Dept\_code, salary)

***1NF:***

* Phone\_NO is a multivalued Attribute.

MANAGE (EIIN\_NO, Authority, Address, E\_ID, City, Email, FIRST\_name, LAST\_NAME, DEPT\_name, Dept\_code, salary)

***2NF:***

1. Phone\_id, Phone\_NO.
2. EIIN\_NO, Authority, Address, Email, Phone\_id.
3. E\_id, Phone\_id, city, Email, FIRST\_name, LAST\_NAME, Dept\_code, Dept\_name, salary.

***3NF:***

1. Phone \_ id, Phone,
2. EIIN \_ NO, Phone id, Authority, ADDRESS, EMAIL.
3. NID, FIRST\_name, LAST\_NAME.
4. E\_id, Dept\_code, Dept\_name.
5. E\_id, Phone \_ id, city, EMAIL, NID, salary.

***UNF:*** RENTAL COMPLEX CONTACTED BY HOUSE OWNER

CONTACT (EIIN\_NO, Authority\_NAME, FIRST\_NAME, LAST\_NAME, City, House\_No, Street\_No, Post\_NO, EMAIL)

***1NF:***

* Phone is a multi valued Attribute.

CONTACT (EIIN\_NO, Authority, FIRST\_NAME, LAST\_NAME, City, House\_No, Street\_No, Post\_NO, EMAIL Address\_ID, Ho-id)

***2NF:***

1. Phone \_id, Phone\_NO
2. EIIN \_ NO, Authority\_NAME, Address\_ID.
3. HoUSE\_id, O\_FNAME, O\_Lname, House –\_No, Street-No, Post-No,

***3NF:***

1. Phone \_ id, Phone\_NO.
2. EIIN \_ NO, Phone\_id, Authority\_NAME, Address\_ID.
3. NID, FIRST\_Name, LAST\_name.
4. O\_ID, CITY, House\_No, Street\_No, Post\_No, Email.
5. HO\_ID, NID, PHONE\_NO, Email.

***UNF:*** RENTAL COMPLEX DELIVER TO CUSTOMER

DELIVER(C0\_id, phone, c\_name\_email, address, eiin\_no, authority\_name, phone\_no, address)

***1NF:***

* Phone\_NO is a multivalued Attribute.

DELIVER(C0\_id, c\_name\_email, address, eiin\_no, authority\_name, address)

***2NF:***

1. Phone \_id, Phone
2. EIIN \_ no, Authority, Address, Phone id .
3. C\_id,Email, City, CFrone,CFname,CLname, Phone id .

***3NF:***

1. Phone \_ id, Phone,
2. EIIN \_ No, Authority, Address, Phone id .
3. N\_ID,C Fmame, C Lname.
4. co\_id, Nid, CITY, Phone\_id

***UNF:*** customer pays payment

pay(C0\_id, phone, c\_name\_email, address,payment\_id, price)

***1nf:***

* Phone\_NO is a multivalued Attribute.

pay(C0\_id, c\_name\_email, address,payment\_id, price)

***2nf:***

1. Phone \_id, Phone.
2. Payment\_id, Price, Payment methed.
3. C\_id,Email, City, CFrone, CFname, CLname, Phone id.

***3NF:***

1. PHONE \_id, Phone.
2. Payment\_id, Price, Payment methed.
3. NID, C Fmame, C Lname.
4. Co\_id, N\_ID, Phone \_ID, EMAIL,City.

***UNF:*** payment pay to rental complex

PAY (payment\_id, price, eiin\_no, authority\_name, phone\_no, address)

***1NF:***

* Phone\_NO is a multivalued Attribute.

pay(payment\_id, price, eiin\_no, authority\_name, address)

***2NF:***

1. Phone \_id, Phone.
2. EIIN \_ NUM, Authority, Address, Email .
3. Payment\_id, Price, Payment\_methed.

***3NF:***

* No need for 3NF

***UNF:*** bachelor mech has sublet

has (bathroom\_no, sublet\_no\_bed\_no\_mech\_id,s\_id, name, phone\_no, email)

***1NF:***

* Phone\_NO is a multivalued Attribute.

has (bathroom\_no, sublet\_no\_bed\_no\_mech\_id,s\_id, name, email)

***2NF:***

1. Phone \_id, Phone.
2. Mech\_id, Bachelor\_No, Bad\_No, Sublet\_Num, Street\_NO, HOUSE\_No,Rent.
3. Sublet\_ID, first\_NAME, LAST\_name, City,Email.

***3NF:***

1. Phone \_id, Phone.
2. Mech\_id, Bachelor\_No, Bad\_No, Sublet\_Num.
3. Mech\_ID, CITY, Street,House\_No.
4. N\_ID, S Fmame, S Lname.
5. Sublet\_ID, NID , City, Email, Phone \_id .

***UNF:*** customer choice rental item

CHOICE (C0\_id, phone, c\_name\_email, address,ri\_id, ho\_name, ri\_name)

***1NF:***

* Phone\_NO is a multivalued Attribute.

CHOICE (C0\_id c\_name\_email, address,ri\_id, ho\_name, ri\_name)

***2NF:***

1. Phone \_id, Phone.
2. cu\_ID, EmaiL,Addreass,Cus\_Name.
3. RI\_ID, HO\_id,RI name.

***3NF:***

1. Phone \_id, Phone.
2. N\_ID, first\_NAME, last\_name.
3. C\_id, N\_ID, EMAIL, ADDRESS.
4. RI\_ID, HO\_ID, RI\_Name.

***UNF:*** employee manage rental item

MANAGE(e\_id,phone,dept\_code\_dept\_name\_email\_address\_salary,ri\_id, ho\_name, ri\_name)

***1NF:***

* Phone\_NO is a multivalued Attribute.

manage(e\_id,dept\_code\_dept\_name\_email\_address\_salary,ri\_id, ho\_name, ri\_name)

***2NF:***

1. Phone \_id, Phone.
2. RI\_ID, HO\_ID, RI Name.
3. E\_ID, PHONE\_ID, NID, CITY, EMAIL, Dept\_code.
4. Dept\_CODE, DEPT\_NAME, SALARY.
5. N\_ID, E First\_name, last\_name.

***3NF:***

* No need for 3NF

***UNF:*** house owner own rental item

own(ho\_id, email, phone, address, owner\_name, ri\_id, ho\_name, ri\_name)

***1NF:***

* Phone\_NO is a multivalued Attribute.

own(ho\_id, email, address, owner\_name, ri\_id, ho\_name, ri\_name)

***2NF:***

1. Phone \_id, Phone
2. RI\_ID, Ho\_id , RI Name.
3. Ho\_id, First\_name, Last\_name, City, House\_NO, EMAIL.

***3nf:***

1. Phone \_id, Phone.
2. RI\_ID, HO\_ID, RI Name.
3. Ho\_ID, EMAIL, N\_ID, Phone\_id.
4. First\_name, last\_NAME, NID.
5. CITY, HOUSE\_No, Street\_no, Ho\_id.

***table selection:***

1. Phone \_ id, Phone,
2. EIIN \_ NO, Phone id, Authority, ADDRESS, EMAIL.
3. NID, FIRST\_name, LAST\_NAME.
4. E\_id, Dept\_code, Dept\_name.
5. E\_id, Phone \_ id, city, EMAIL, NID, salary.
6. Phone \_ id, Phone\_NO.
7. EIIN \_ NO, Phone\_id, Authority\_NAME, Address\_ID.
8. NID, FIRST\_Name, LAST\_name.
9. O\_ID, CITY, House\_No, Street\_No, Post\_No, Email.
10. HO\_ID, NID, PHONE\_NO, Email.
11. Phone \_ id, Phone,
12. EIIN \_ No, Authority, Address, Phone id .
13. N\_ID,C Fmame, C Lname.
14. co\_id, Nid, CITY, Phone\_id
15. PHONE \_id, Phone.
16. Payment\_id, Price, Payment methed.
17. NID, C Fmame, C Lname.
18. Co\_id, N\_ID, Phone \_ID, EMAIL,City.
19. Phone \_id, Phone.
20. EIIN \_ NUM, Authority, Address, Email .
21. Payment\_id, Price, Payment\_methed.
22. Phone \_id, Phone.
23. Mech\_id, Bachelor\_No, Bad\_No, Sublet\_Num.
24. Mech\_ID, CITY, Street,House\_No.
25. N\_ID, S Fmame, S Lname.
26. Sublet\_ID, NID , City, Email, Phone \_id .
27. Phone \_id, Phone.
28. N\_ID, first\_NAME, last\_name.
29. C\_id, N\_ID, EMAIL, ADDRESS.
30. RI\_ID, HO\_ID, RI\_Name.
31. Phone \_id, Phone.
32. RI\_ID, HO\_ID, RI Name.
33. E\_ID, PHONE\_ID, NID, CITY, EMAIL, Dept\_code.
34. Dept\_CODE, DEPT\_NAME, SALARY.
35. N\_ID, E First\_name, last\_name.
36. Phone \_id, Phone.
37. RI\_ID, HO\_ID, RI Name.
38. Ho\_ID, EMAIL, N\_ID, Phone\_id.
39. First\_name, last\_NAME, NID.
40. CITY, HOUSE\_No, Street\_no, Ho\_id.

***final table:***

1. Phone\_id, phone.
2. EIIN \_ No, Authority\_name, Phone\_id.
3. NID, first\_name, last\_name.
4. Dept\_code, Dept\_Name, Salary.
5. e\_id, City, Email, Nid, Salary, Dept\_Code, Phone\_id.
6. Address\_id, House\_No, Street\_No, City.
7. Ho\_id, city, Email, Address\_ID, NID, phone\_ID.
8. Cu\_id, EMAIL, City, N\_id, PHONE\_id.
9. Payment\_id, Price, Payment\_methed.
10. Mech\_id, Bathroom\_No, Bed\_No, Sublet\_No.
11. Sublet\_id, city, Email, NID, Mech\_id, Phone\_id.
12. RI\_ID, RI Name, Ho\_id.
13. fh\_id, secuirity, bed\_no, lift\_facility, address\_id.
14. os\_id, office\_size, secuirity, lift\_facility, garage\_facility, address\_id.

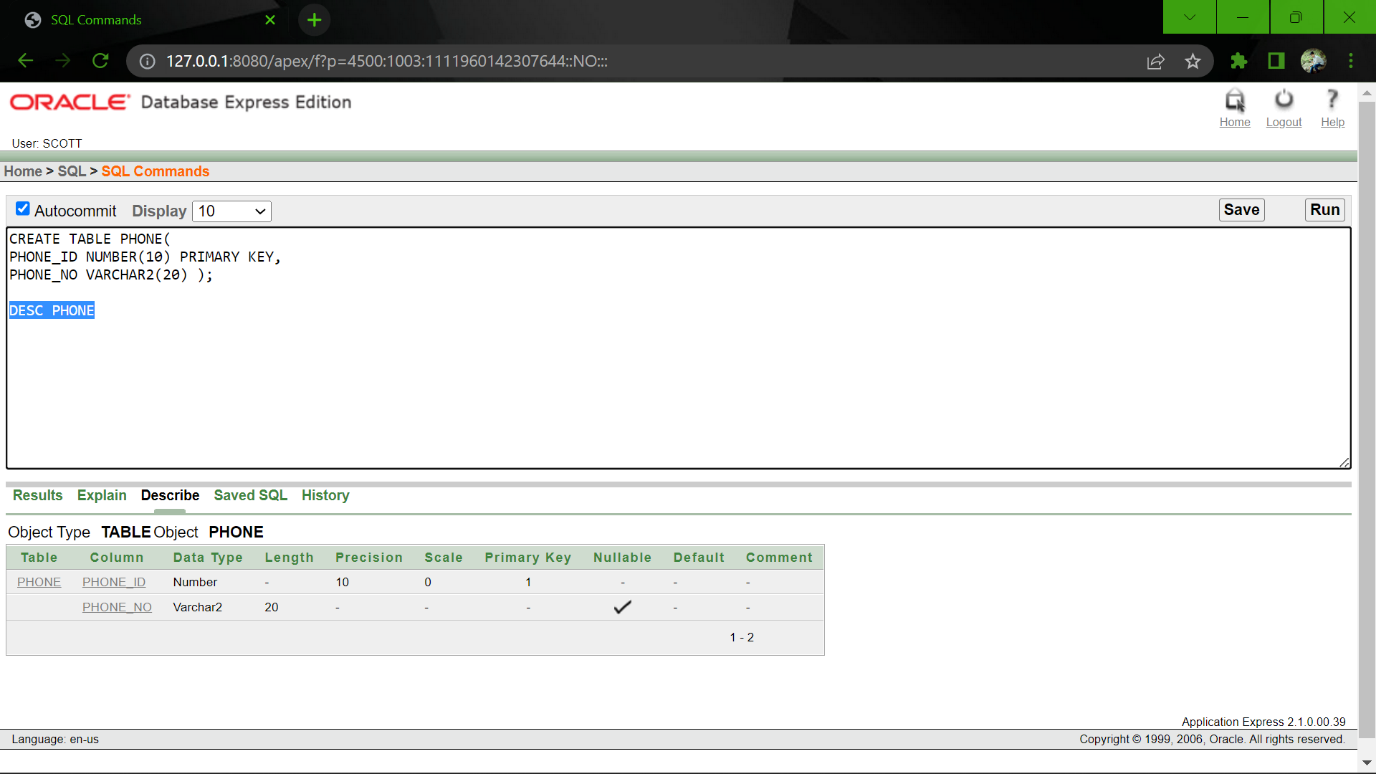
**Table Creation:**

**PHONE TABLE:**

CREATE TABLE PHONE(

PHONE\_ID NUMBER(10) PRIMARY KEY,

PHONE\_NO VARCHAR2(20) );

DESC PHONE

**AUTHORITY TABLE:**

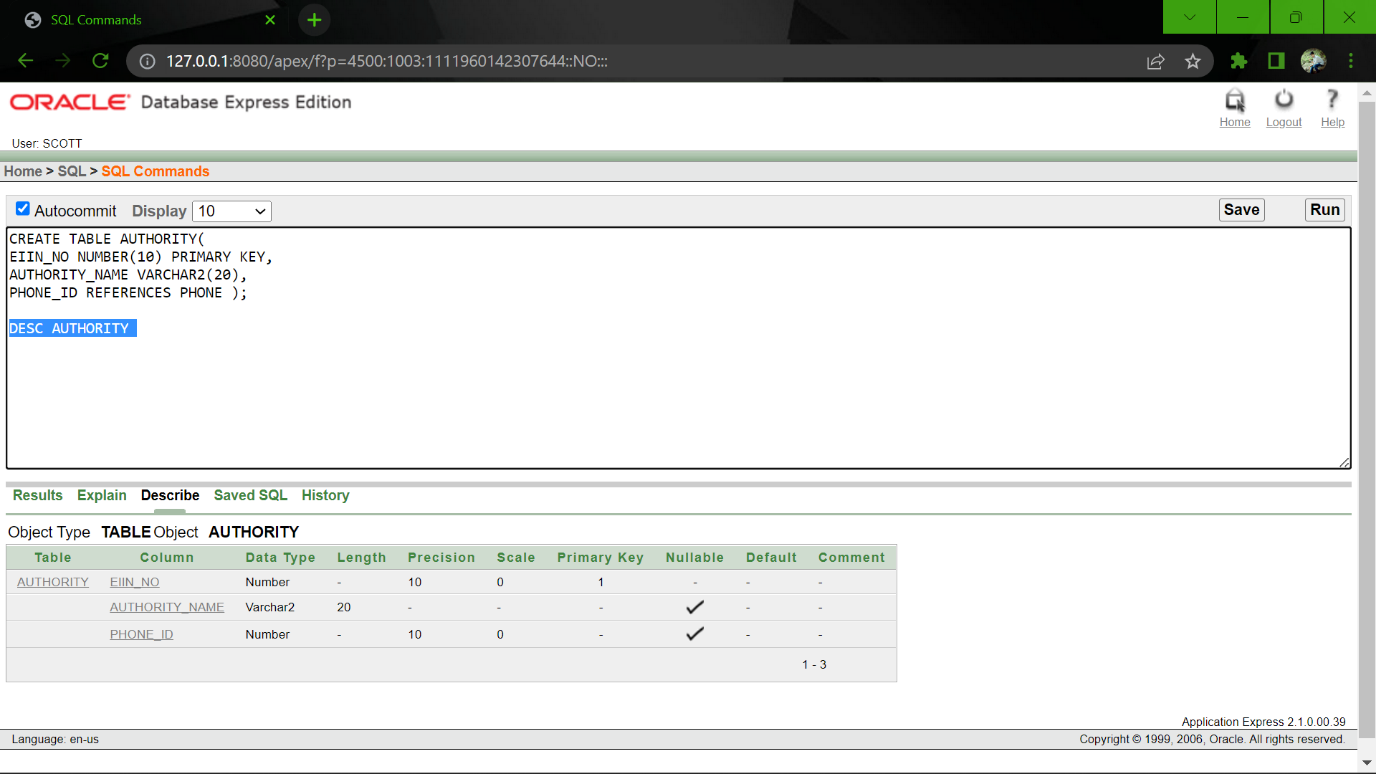
CREATE TABLE AUTHORITY(

EIIN\_NO NUMBER(10) PRIMARY KEY,

AUTHORITY\_NAME VARCHAR2(20),

PHONE\_ID REFERENCES PHONE );

DESC AUTHORITY



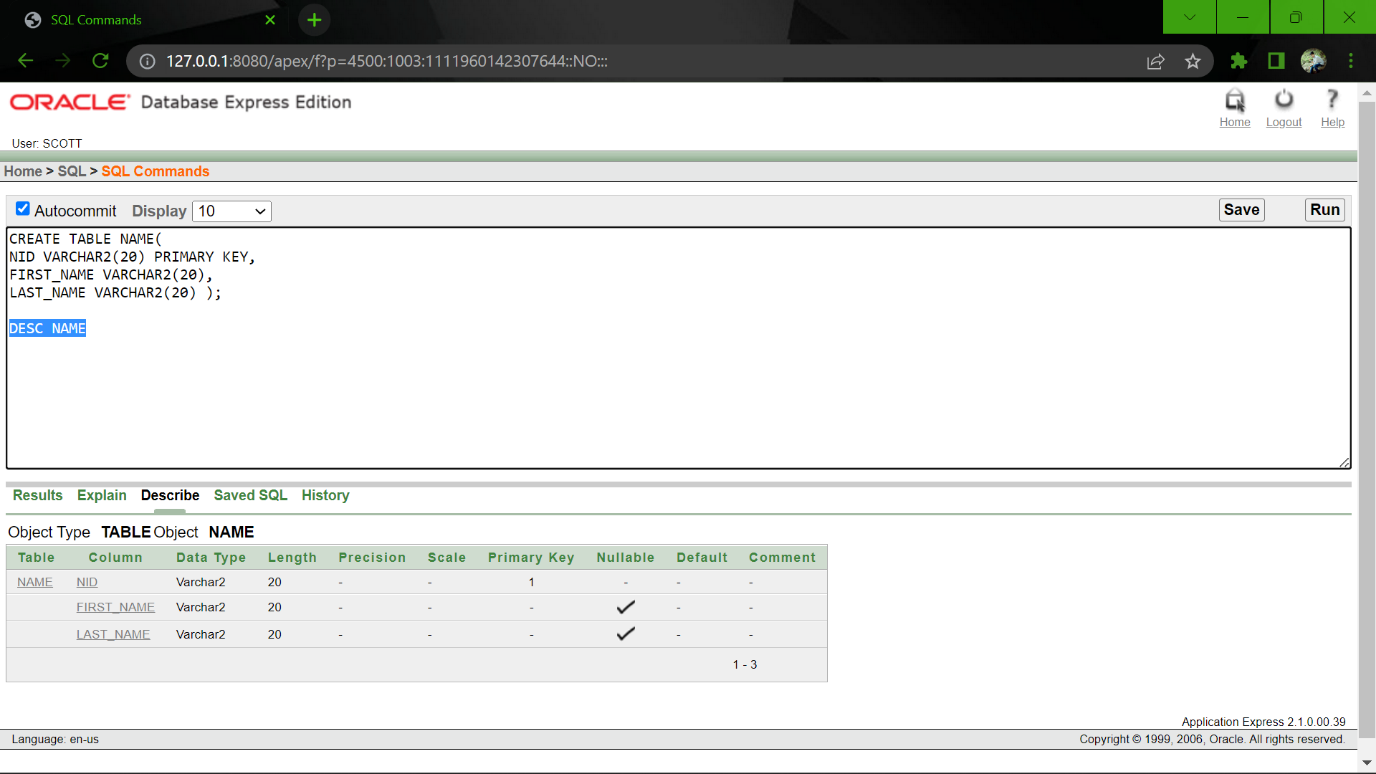
**NAME TABLE:**

CREATE TABLE NAME(

NID VARCHAR2(20) PRIMARY KEY,

FIRST\_NAME VARCHAR2(20),

LAST\_NAME VARCHAR2(20) );

DESC NAME****

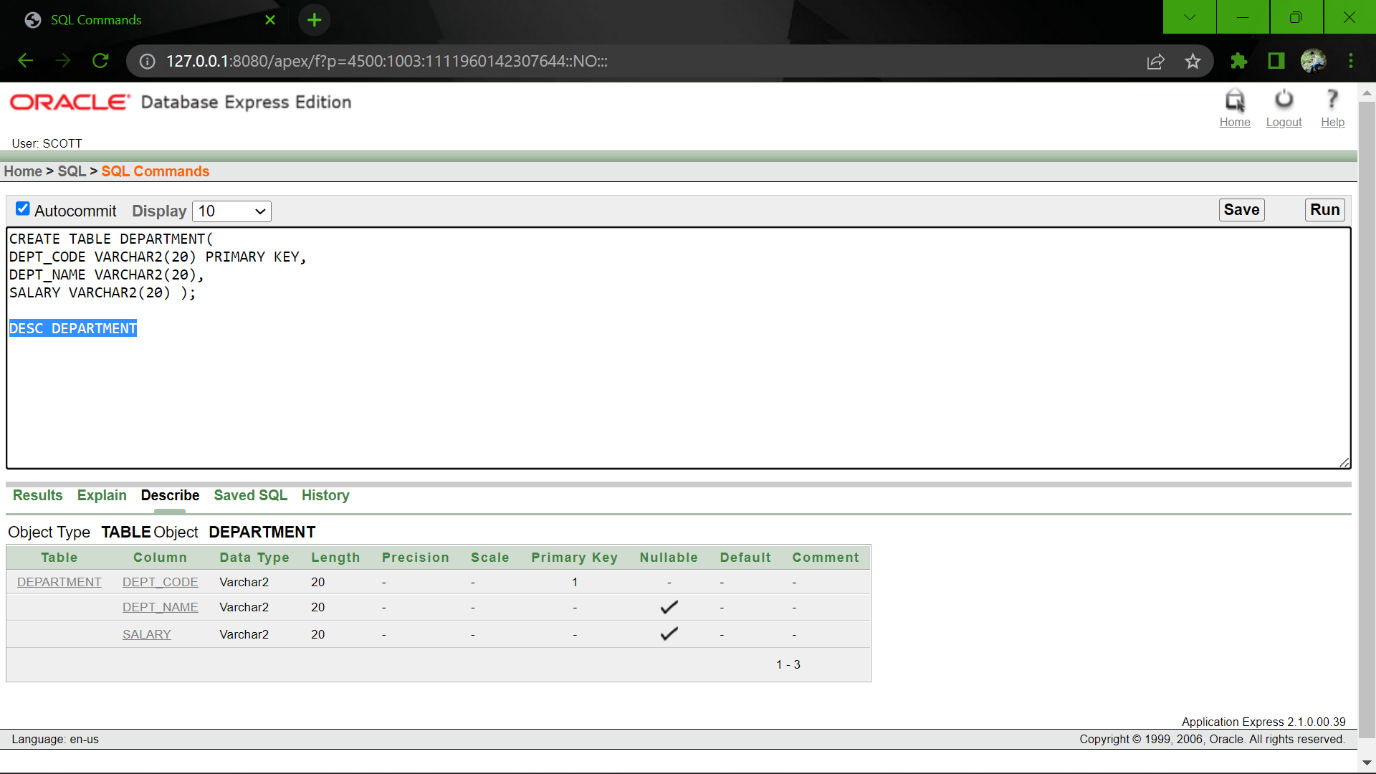
**DEPARTMENT TABLE:**

CREATE TABLE DEPARTMENT(

DEPT\_CODE VARCHAR2(20) PRIMARY KEY,

DEPT\_NAME VARCHAR2(20),

SALARY VARCHAR2(20) );

****DESC DEPARTMENT

**EMPLOYEE TABLE:**

CREATE TABLE EMPLOYEE(

E\_ID NUMBER(10) PRIMARY KEY,

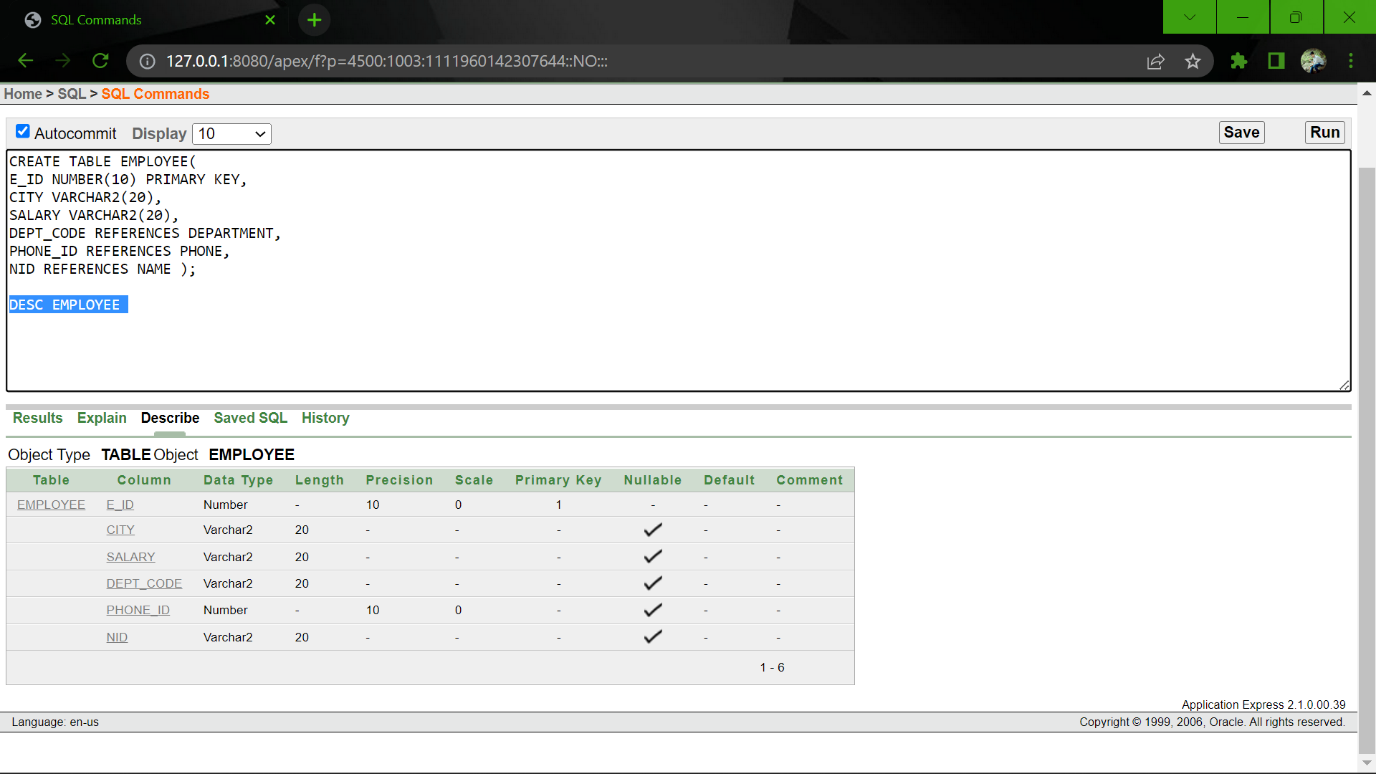
CITY VARCHAR2(20),

SALARY VARCHAR2(20),

DEPT\_CODE REFERENCES DEPARTMENT,

PHONE\_ID REFERENCES PHONE,

NID REFERENCES NAME );

****DESC EMPLOYEE

**ADDRESS TABLE:**

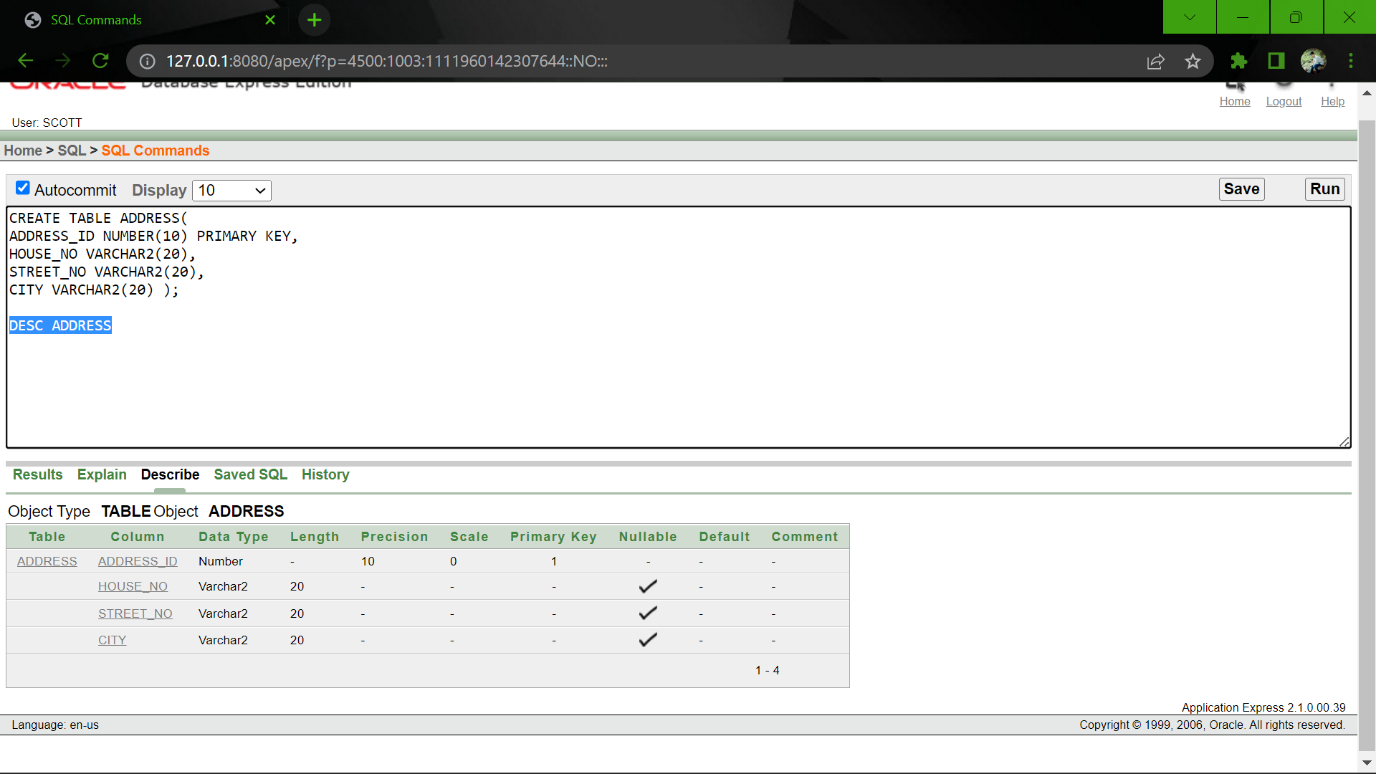
CREATE TABLE ADDRESS(

ADDRESS\_ID NUMBER(10) PRIMARY KEY,

HOUSE\_NO VARCHAR2(20),

STREET\_NO VARCHAR2(20),

CITY VARCHAR2(20) );

DESC ADDRESS

**HOUSE OWNER TABLE:**

CREATE TABLE HOUSE\_OWNER(

HO\_ID NUMBER(10) PRIMARY KEY,

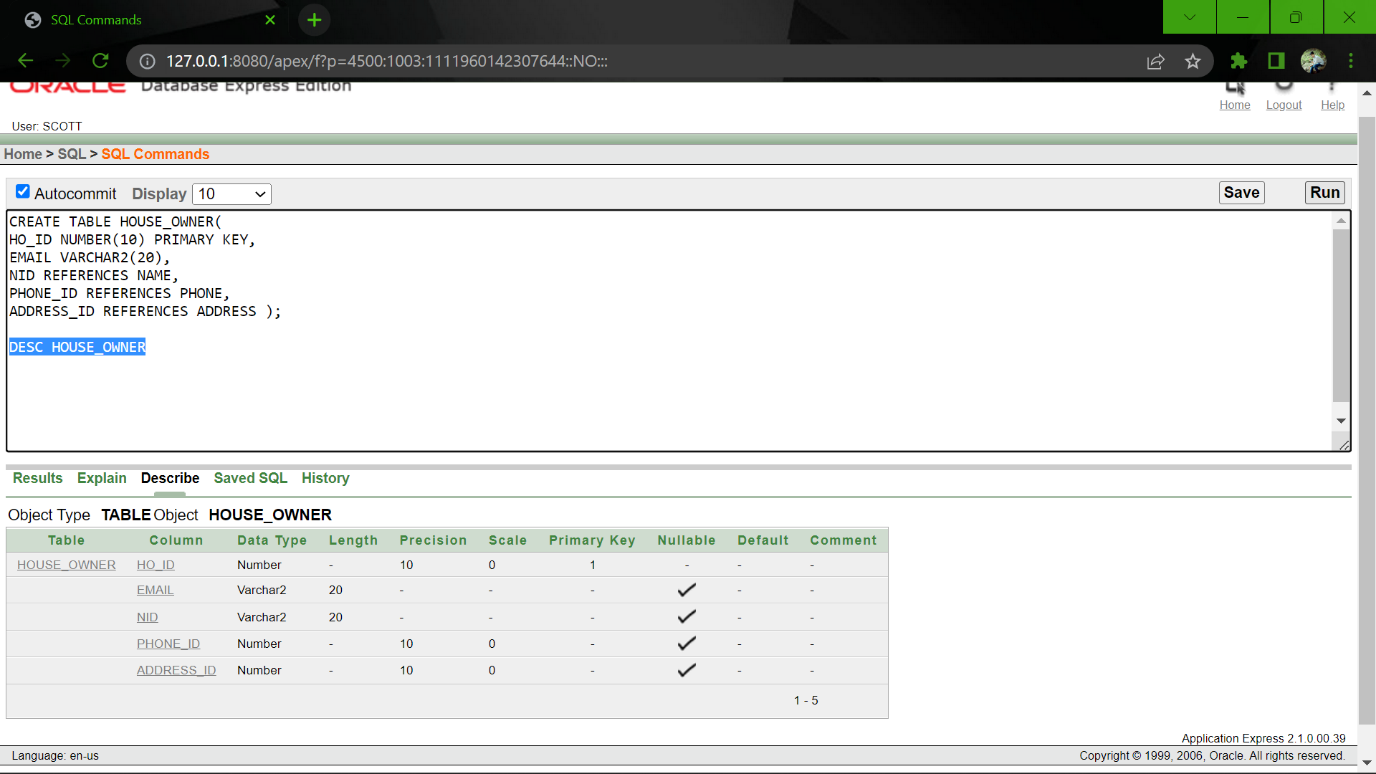
EMAIL VARCHAR2(20),

NID REFERENCES NAME,

PHONE\_ID REFERENCES PHONE,

ADDRESS\_ID REFERENCES ADDRESS );

DESC HOUSE\_OWNER



**CUSTOMER TABLE:**

CREATE TABLE CUSTOMER(

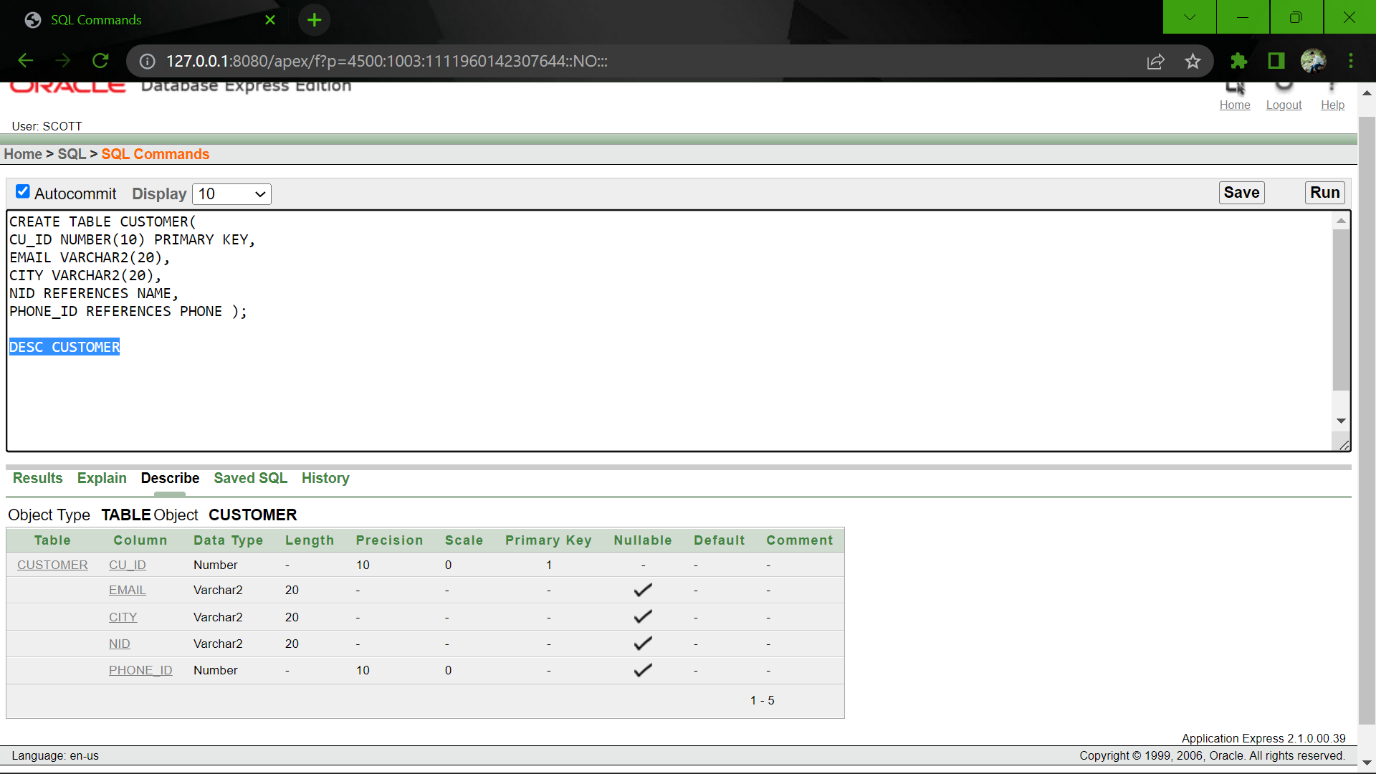
CU\_ID NUMBER(10) PRIMARY KEY,

EMAIL VARCHAR2(20),

CITY VARCHAR2(20),

NID REFERENCES NAME,

PHONE\_ID REFERENCES PHONE );

DESC CUSTOMER

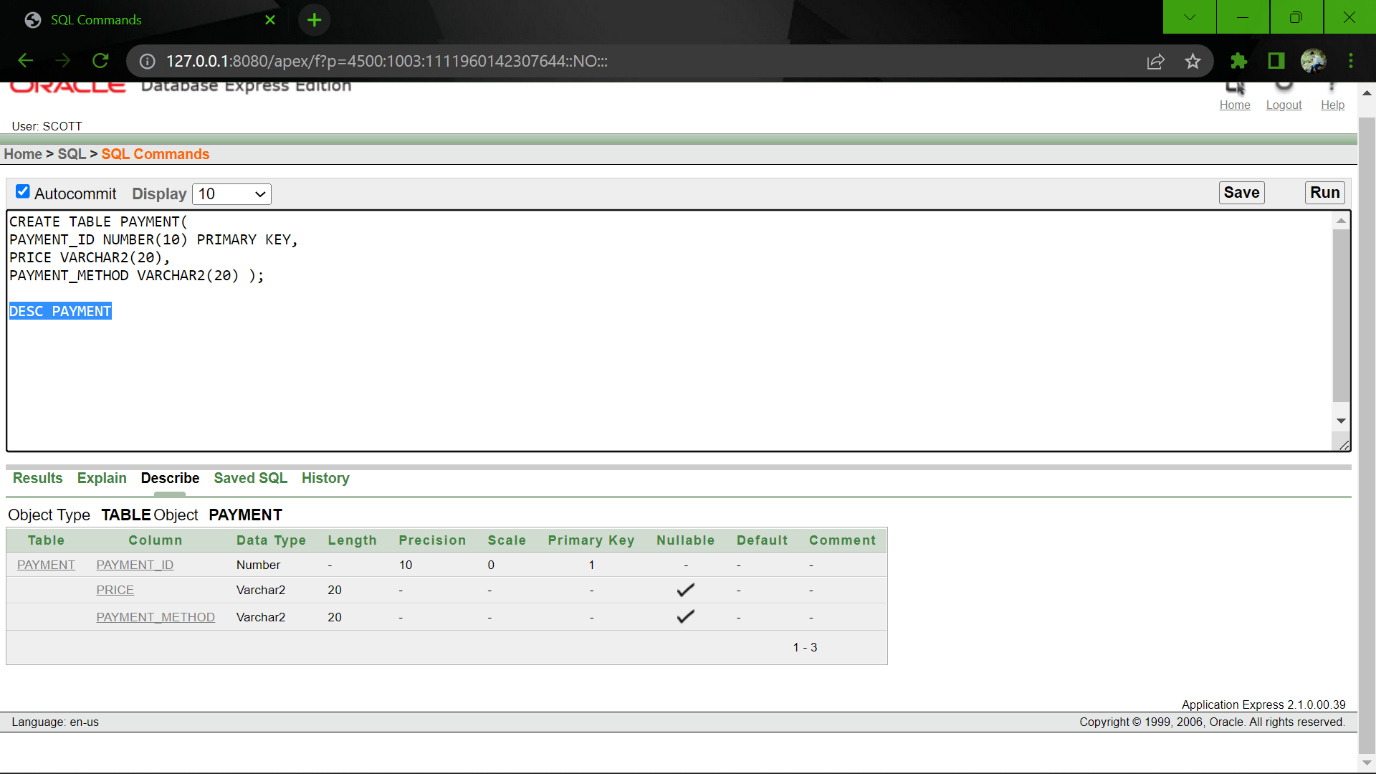
**PAYMENT TABLE:**

CREATE TABLE PAYMENT(

PAYMENT\_ID NUMBER(10) PRIMARY KEY,

PRICE VARCHAR2(20),

PAYMENT\_METHOD VARCHAR2(20) );

DESC PAYMENT

**MECH TABLE:**

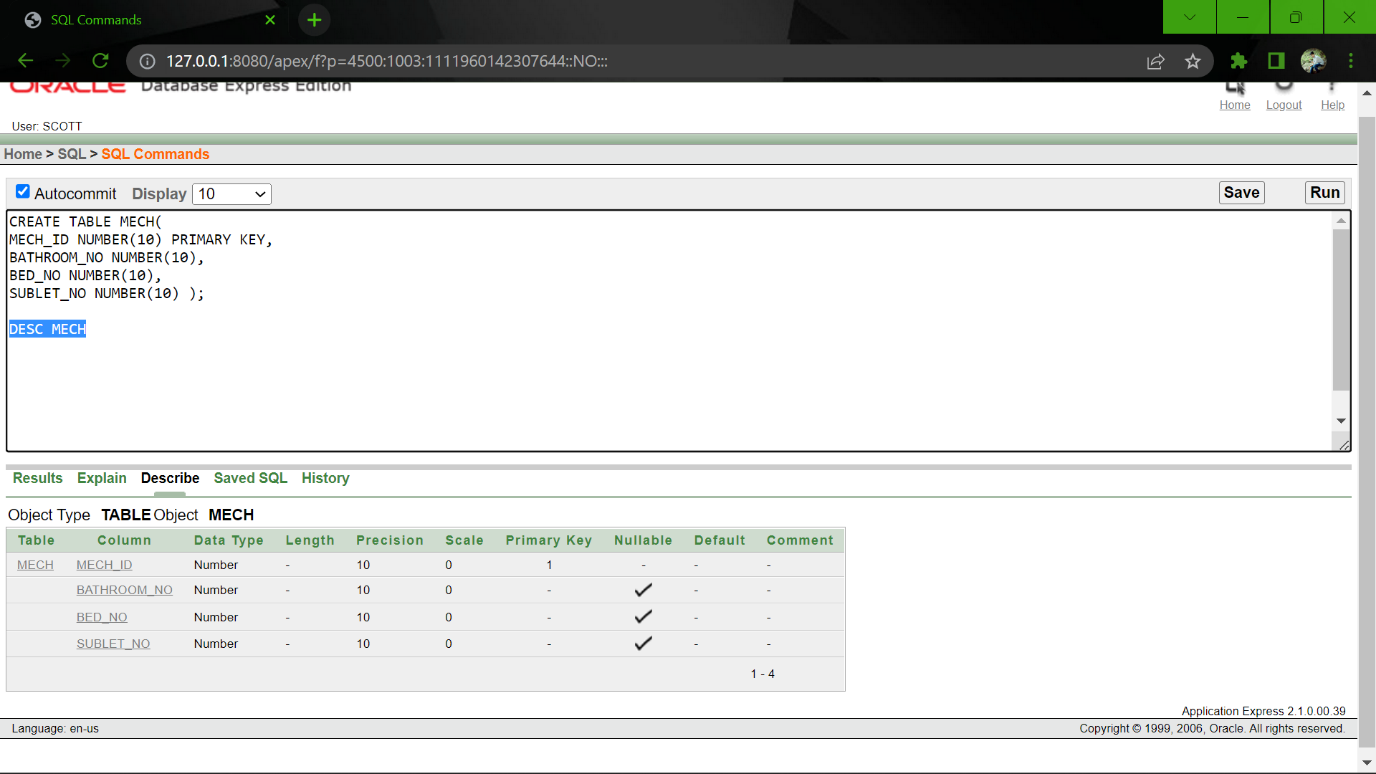
CREATE TABLE MECH(

MECH\_ID NUMBER(10) PRIMARY KEY,

BATHROOM\_NO NUMBER(10),

BED\_NO NUMBER(10),

SUBLET\_NO NUMBER(10) );

DESC MECH

**SUBLET TABLE:**

CREATE TABLE SUBLET(

SUBLET\_ID NUMBER(10) PRIMARY KEY,

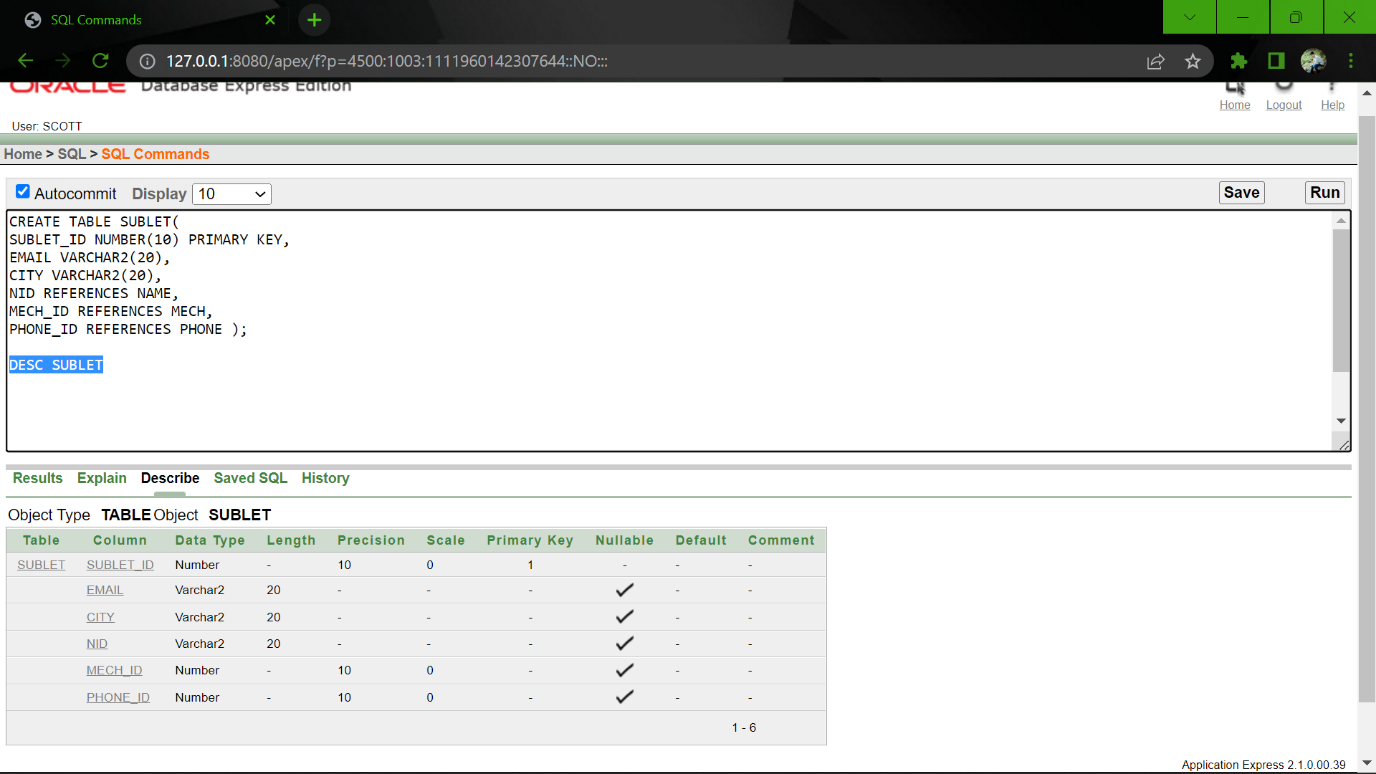
EMAIL VARCHAR2(20),

CITY VARCHAR2(20),

NID REFERENCES NAME,

MECH\_ID REFERENCES MECH,

PHONE\_ID REFERENCES PHONE );

DESC SUBLET

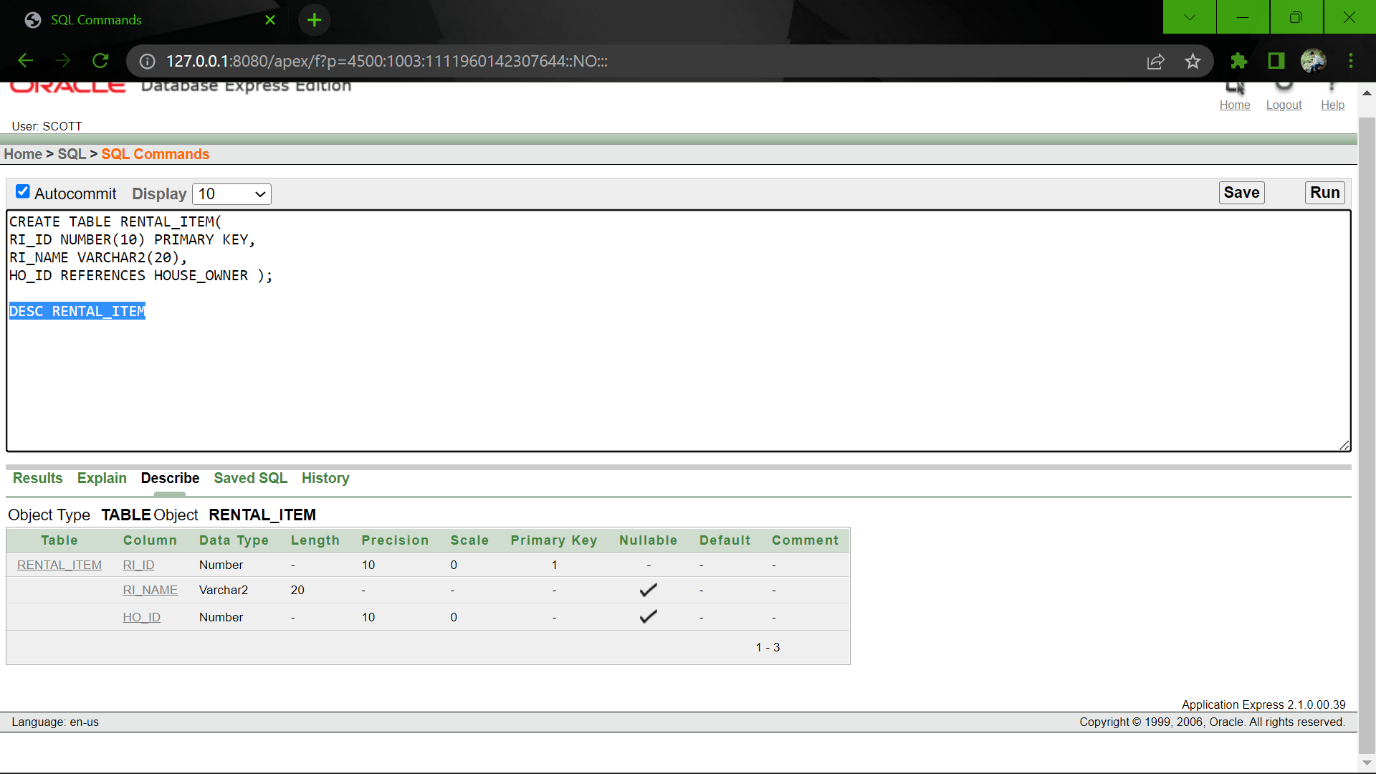
**RENTAL ITEM TABLE:**

CREATE TABLE RENTAL\_ITEM(

RI\_ID NUMBER(10) PRIMARY KEY,

RI\_NAME VARCHAR2(20),

HO\_ID REFERENCES HOUSE\_OWNER );

DESC RENTAL\_ITEM

**FAMILY HOUSE TABLE:**

CREATE TABLE FAMILY\_HOUSE(

FH\_ID NUMBER(10) PRIMARY KEY,

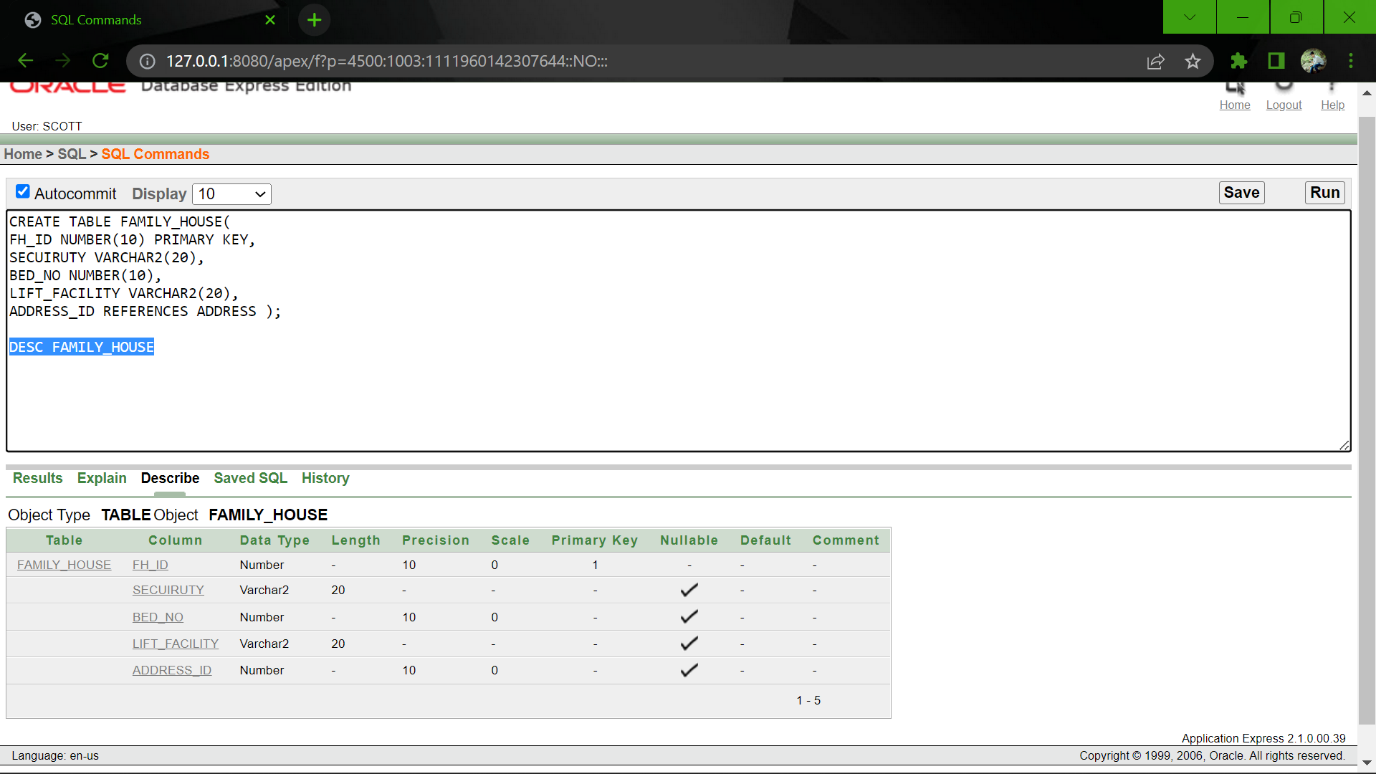
SECUIRUTY VARCHAR2(20),

BED\_NO NUMBER(10),

LIFT\_FACILITY VARCHAR2(20),

ADDRESS\_ID REFERENCES ADDRESS );

DESC FAMILY\_HOUSE



**OFFICE SPACE TABLE:**

CREATE TABLE OFFICE\_SPACE(

OS\_ID NUMBER(10) PRIMARY KEY,

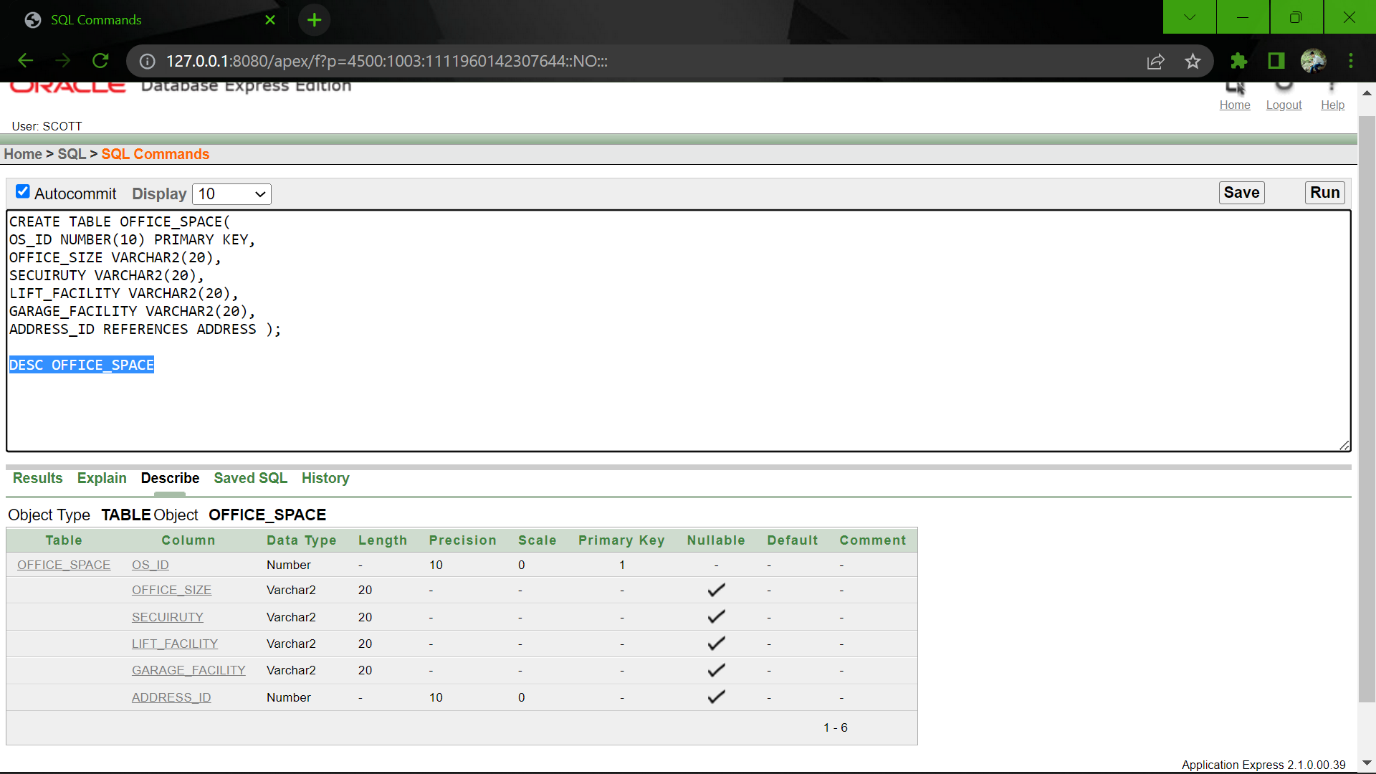
OFFICE\_SIZE VARCHAR2(20),

SECUIRUTY VARCHAR2(20),

LIFT\_FACILITY VARCHAR2(20),

GARAGE\_FACILITY VARCHAR2(20),

ADDRESS\_ID REFERENCES ADDRESS );

DESC OFFICE\_SPACE

**Table Insertion:**

**PHONE TABLE:**

1.

INSERT INTO PHONE VALUES( '01','+8801712345678');

INSERT INTO PHONE VALUES( '02','+8801712345679');

INSERT INTO PHONE VALUES( '03','+8801712345680');

INSERT INTO PHONE VALUES( '04','+8801712345681');

INSERT INTO PHONE VALUES( '05','+8801712345681');

INSERT INTO PHONE VALUES( '06','+8801612345682');

INSERT INTO PHONE VALUES( '07','+8801612345683');

INSERT INTO PHONE VALUES( '08','+8801612345684');

INSERT INTO PHONE VALUES( '09','+8801612345685');

INSERT INTO PHONE VALUES( '10','+8801612345686');

INSERT INTO PHONE VALUES( '11','+8801312345687');

INSERT INTO PHONE VALUES( '12','+8801312345688');

INSERT INTO PHONE VALUES( '13','+8801312345689');

INSERT INTO PHONE VALUES( '14','+8801312345681');

INSERT INTO PHONE VALUES( '15','+8801312345682');

INSERT INTO PHONE VALUES( '16','+8801912345683');

INSERT INTO PHONE VALUES( '17','+8801912345684');

INSERT INTO PHONE VALUES( '18','+8801912345685');

INSERT INTO PHONE VALUES( '19','+8801912345686');

INSERT INTO PHONE VALUES( '20','+8801912345687');

INSERT INTO PHONE VALUES( '21','+8801918345687');

INSERT INTO PHONE VALUES( '22','+8801312345688');

INSERT INTO PHONE VALUES( '23','+8801312345689');

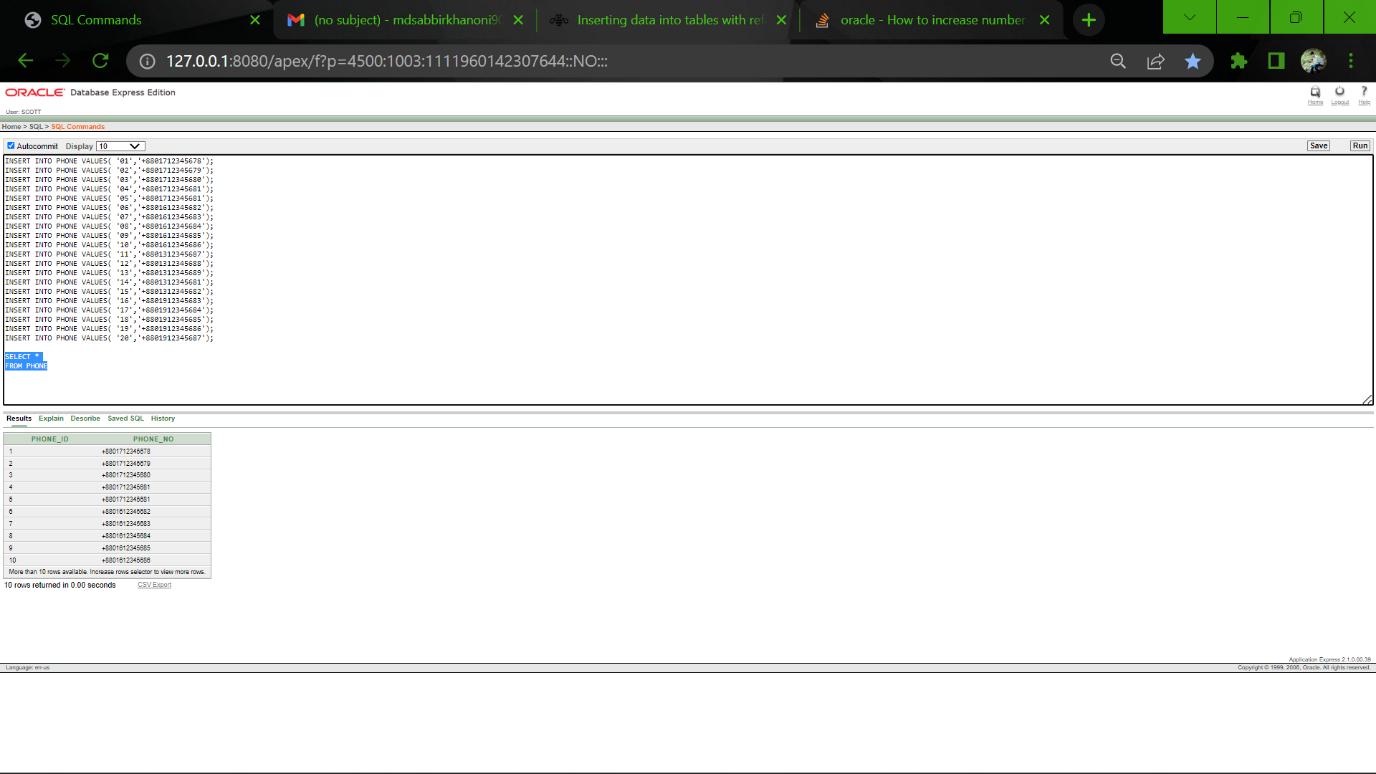
INSERT INTO PHONE VALUES( '24','+8801312345681');

INSERT INTO PHONE VALUES( '25','+8801312345682');

INSERT INTO PHONE VALUES( '26','+8801912345683');

SELECT \*

FROM PHONE

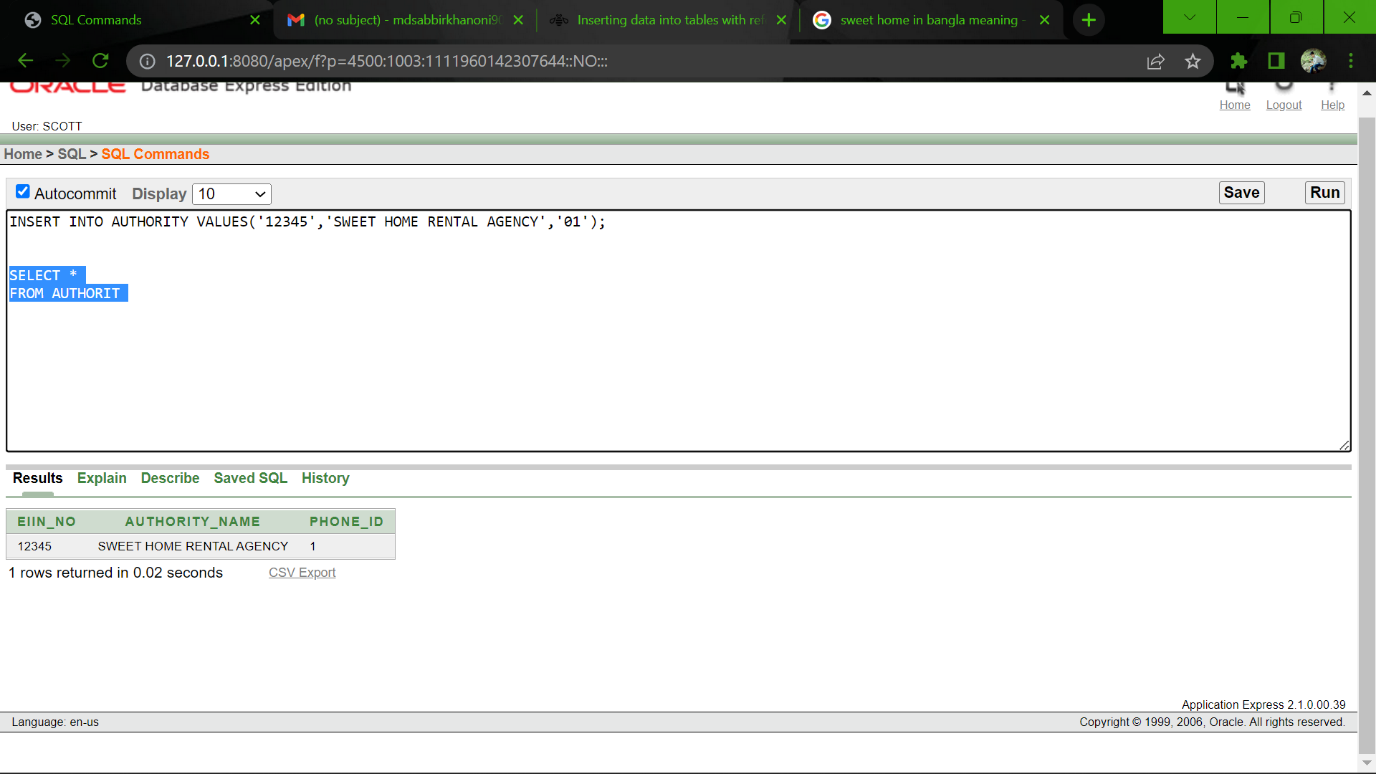


**AUTHORITY TABLE:**

2.

INSERT INTO AUTHORITY VALUES('12345','SWEET HOME RENTAL AGENCY','01');

SELECT \*

FROM AUTHORITY

**NAME TABLE:**

3.

INSERT INTO NAME VALUES('101','MD SABBIR','KHAN');

INSERT INTO NAME VALUES('102','MD AKASH','KHAN');

INSERT INTO NAME VALUES('103','NUR-E HABIB','NURSHED');

INSERT INTO NAME VALUES('104','RAIHANUL','ISLAM');

INSERT INTO NAME VALUES('105','JULKER','NINE');

INSERT INTO NAME VALUES('106','HABIUR','RAHAMAN');

INSERT INTO NAME VALUES('107','SAHADAT','HOSSAIN');

INSERT INTO NAME VALUES('108','SABAB','RAHAMAN');

INSERT INTO NAME VALUES('109','RICKI','SEN');

INSERT INTO NAME VALUES('110','DIPON','BISWAS');

INSERT INTO NAME VALUES('111','MAHADI','KABIR');

INSERT INTO NAME VALUES('112','REZAUL','KARIM');

INSERT INTO NAME VALUES('113','RISI','GUPTA');

INSERT INTO NAME VALUES('114','AQIB','HOWLADER');

INSERT INTO NAME VALUES('115','RISHAD','RAHMAN');

INSERT INTO NAME VALUES('116',RASEDUR ,'RAHAMAN');

INSERT INTO NAME VALUES('117',KHALID ,'HOSSAIN');

INSERT INTO NAME VALUES('118','RIYANTTI','SEN');

INSERT INTO NAME VALUES('119','SIMA','RAHAMAN');

INSERT INTO NAME VALUES('120','PRIYA','BISWAS');

INSERT INTO NAME VALUES('121','MEHEDI','RAHAMAN');

INSERT INTO NAME VALUES('122','REZAUL','SHARIF);

INSERT INTO NAME VALUES('123','RUMPA','KHAN');

INSERT INTO NAME VALUES('124','ISRAT','EVA');

INSERT INTO NAME VALUES('125','RAJU','RAHMAN');

SELECT \*

FROM NAME



**DEPARTMENT TABLE:**

4.

INSERT INTO DEPARTMENT VALUES('8801','FINANCE','10000');

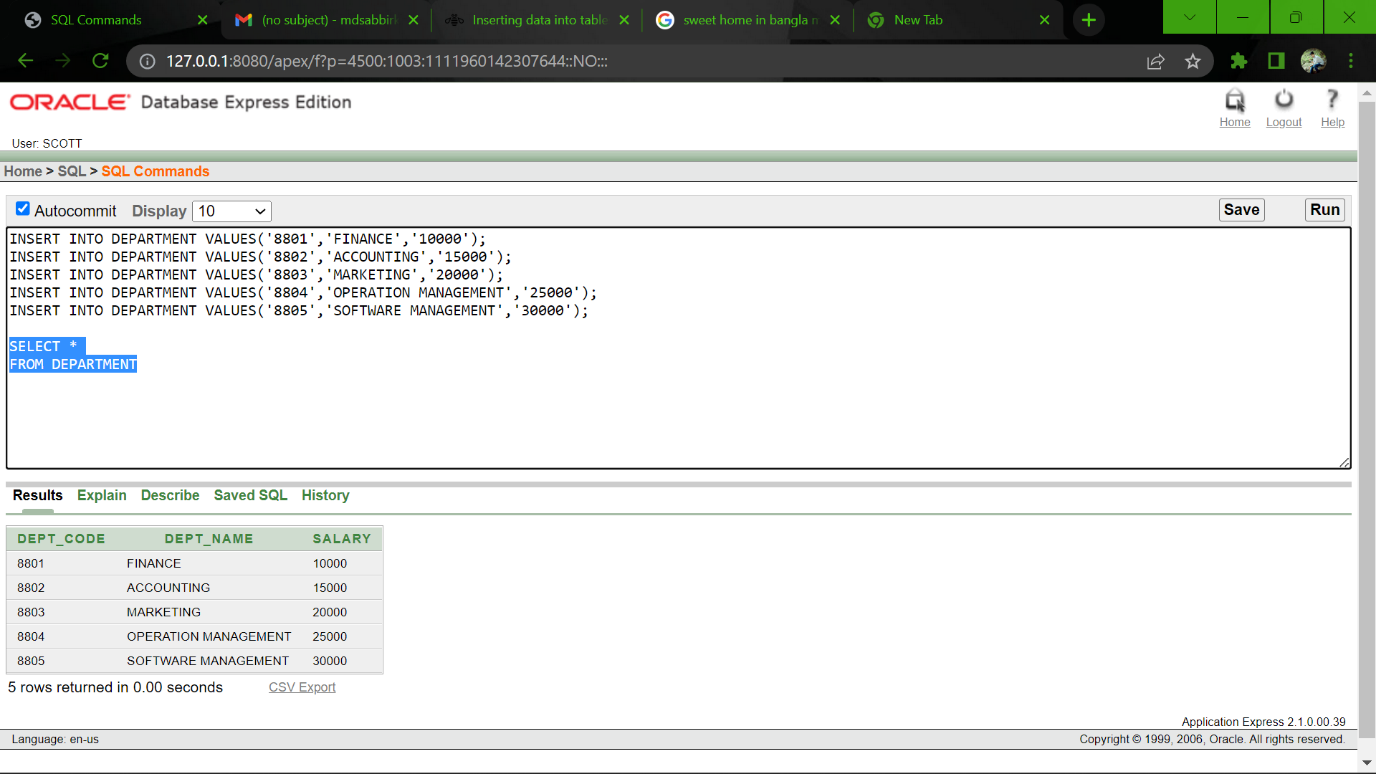
INSERT INTO DEPARTMENT VALUES('8802','ACCOUNTING','15000');

INSERT INTO DEPARTMENT VALUES('8803','MARKETING','20000');

INSERT INTO DEPARTMENT VALUES('8804','OPERATION MANAGEMENT','25000');

INSERT INTO DEPARTMENT VALUES('8805','SOFTWARE MANAGEMENT','30000');

SELECT \*

FROM DEPARTMENT

**EMPLOYEE** **TABLE:**

5.

INSERT INTO EMPLOYEE VALUES('2201','DHAKA','10000','8801','07','106');

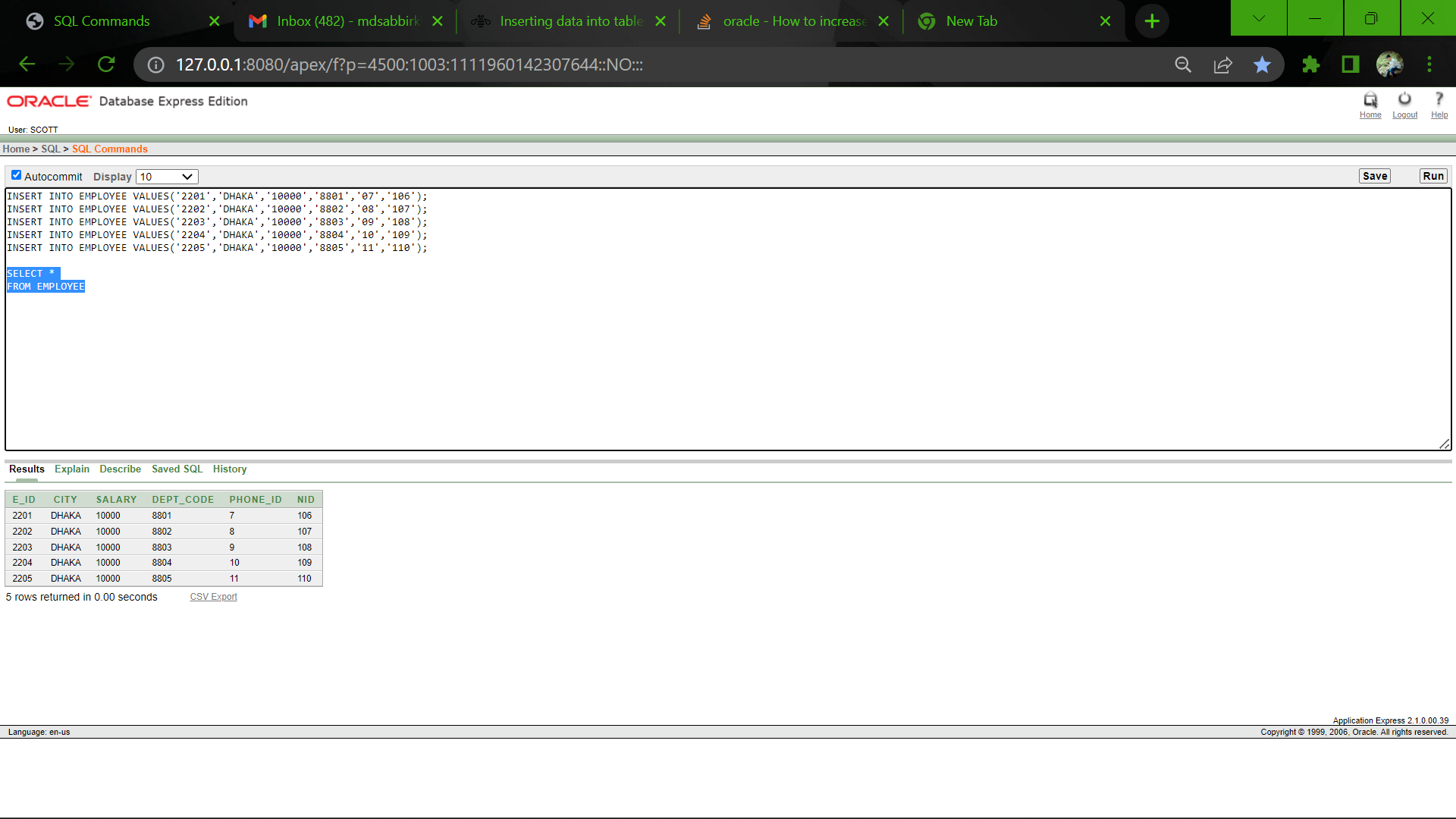
INSERT INTO EMPLOYEE VALUES('2202','DHAKA','10000','8802','08','107');

INSERT INTO EMPLOYEE VALUES('2203','DHAKA','10000','8803','09','108');

INSERT INTO EMPLOYEE VALUES('2204','DHAKA','10000','8804','10','109');

INSERT INTO EMPLOYEE VALUES('2205','DHAKA','10000','8805','11','110');

SELECT \*

FROM EMPLOYEE

**ADDRESS TABLE:**

6.

INSERT INTO ADDRESS VALUES('1000','314','612','CTG');

INSERT INTO ADDRESS VALUES('1001','317','125','DHAKA');

INSERT INTO ADDRESS VALUES('1002','312','516','COXSBAZAR');

INSERT INTO ADDRESS VALUES('1003','316','197','PEKUA');

INSERT INTO ADDRESS VALUES('1004','315','188','KULNA');

INSERT INTO ADDRESS VALUES('1005','344','172','CTG');

INSERT INTO ADDRESS VALUES('1006','327','165','DHAKA');

INSERT INTO ADDRESS VALUES('1007',352','156','COXSBAZAR');

INSERT INTO ADDRESS VALUES('1008','516,'147','PEKUA');

INSERT INTO ADDRESS VALUES('1009','815','138','KULNA');

INSERT INTO ADDRESS VALUES('1010','214','122','CTG');

INSERT INTO ADDRESS VALUES('1011','717','418','DHAKA');

INSERT INTO ADDRESS VALUES('1012','212','116','COXSBAZAR');

INSERT INTO ADDRESS VALUES('1013','916','117','PEKUA');

INSERT INTO ADDRESS VALUES('1014','515','138','KULNA');

INSERT INTO ADDRESS VALUES('1015','214','162','CTG');

INSERT INTO ADDRESS VALUES('1016','817','115','DHAKA');

INSERT INTO ADDRESS VALUES('1017','352','116','COXSBAZAR');

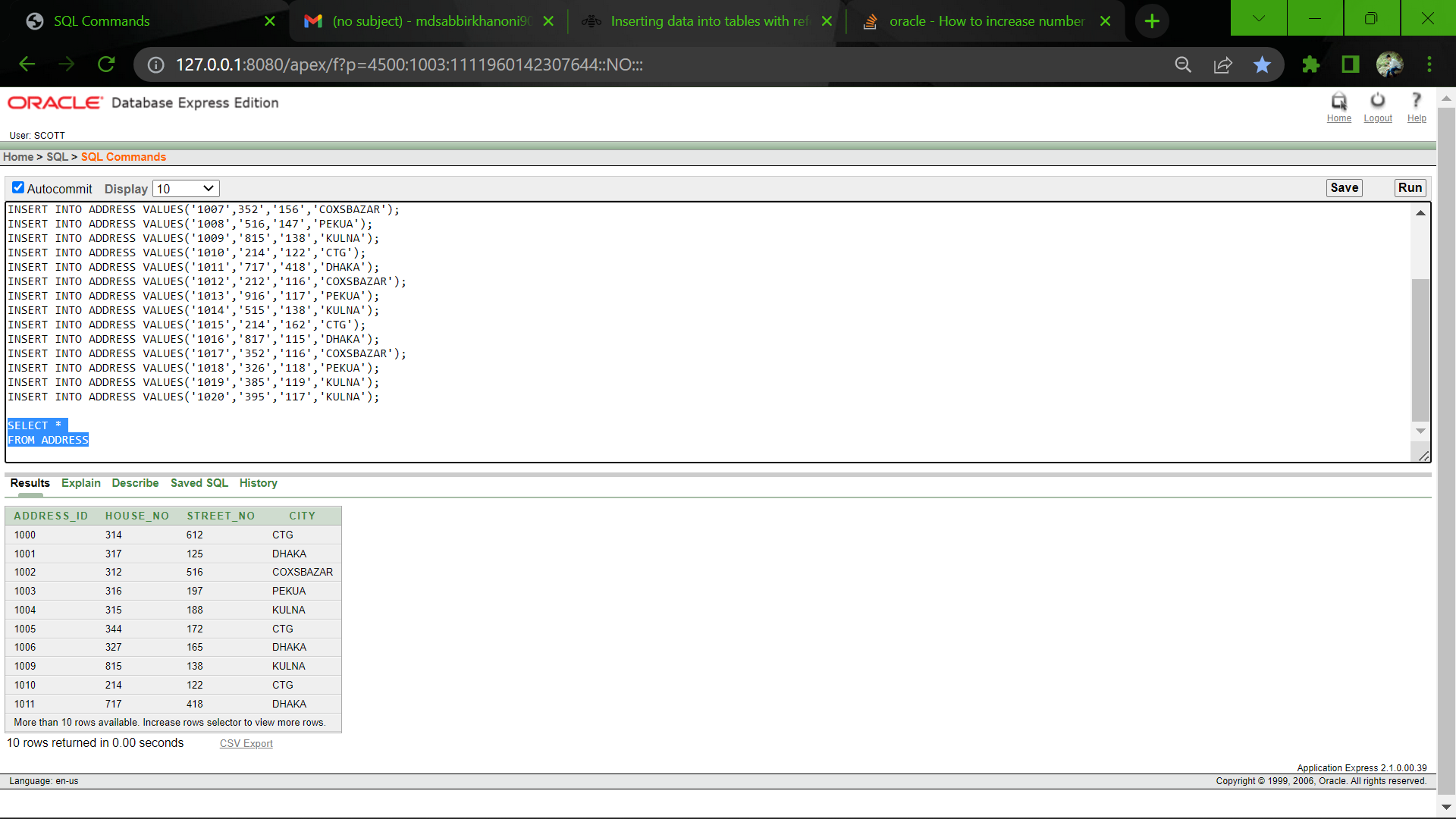
INSERT INTO ADDRESS VALUES('1018','326','118','PEKUA');

INSERT INTO ADDRESS VALUES('1019','385','119','KULNA');

INSERT INTO ADDRESS VALUES('1020','395','117','KULNA');

SELECT \*

FROM ADDRESS



**HOUSE OWNER TABLE:**

7.

INSERT INTO HOUSE\_OWNER VALUES('884601','sajibul1@gamil.com','111','12','1000');

INSERT INTO HOUSE\_OWNER VALUES('884602','raihanul2@gamil.com','112','13','1001');

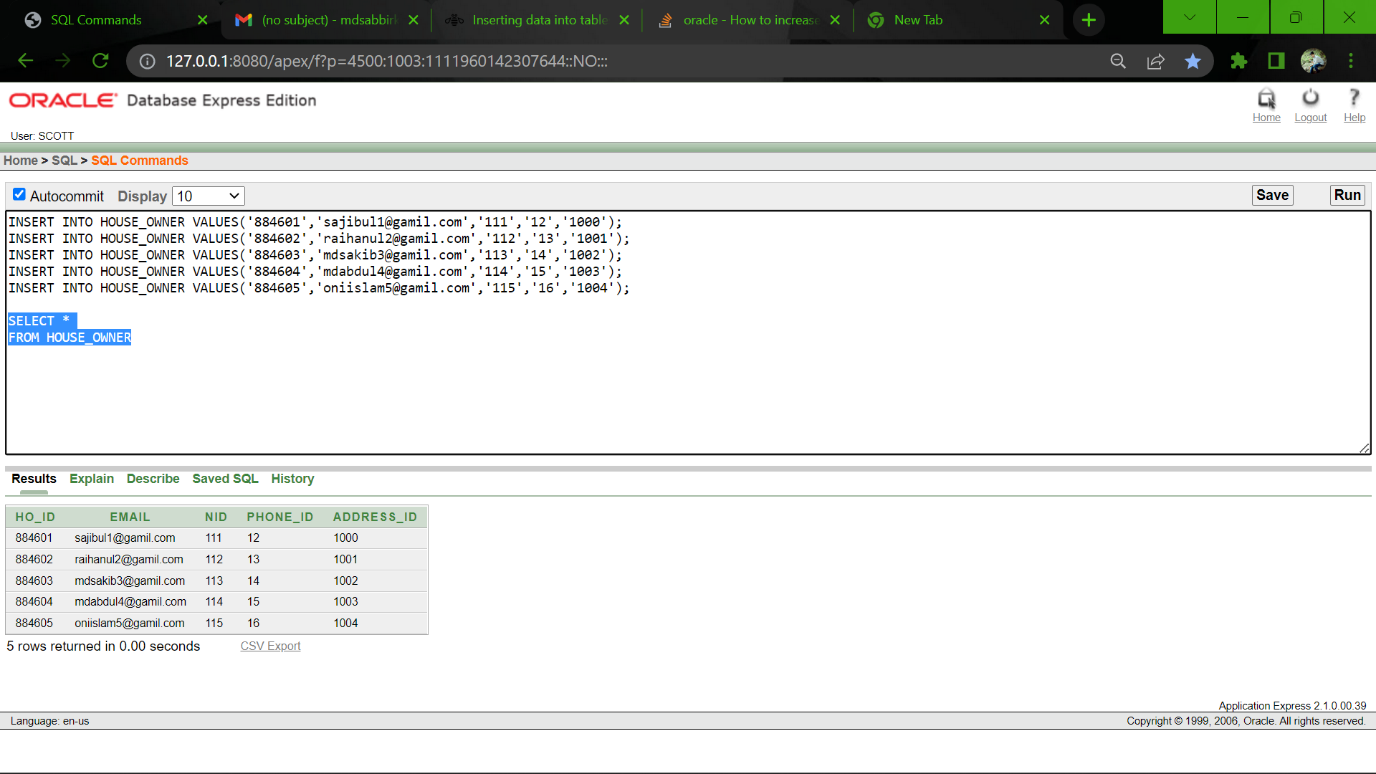
INSERT INTO HOUSE\_OWNER VALUES('884603','mdsakib3@gamil.com','113','14','1002');

INSERT INTO HOUSE\_OWNER VALUES('884604','mdabdul4@gamil.com','114','15','1003');

INSERT INTO HOUSE\_OWNER VALUES('884605','oniislam5@gamil.com','115','16','1004');

SELECT \*

FROM HOUSE\_OWNER

****

**CUSTOMER TABLE:**

8.

INSERT INTO CUSTOMER VALUES('884701','abcd1@gamil.com','DHAKA','116','17');

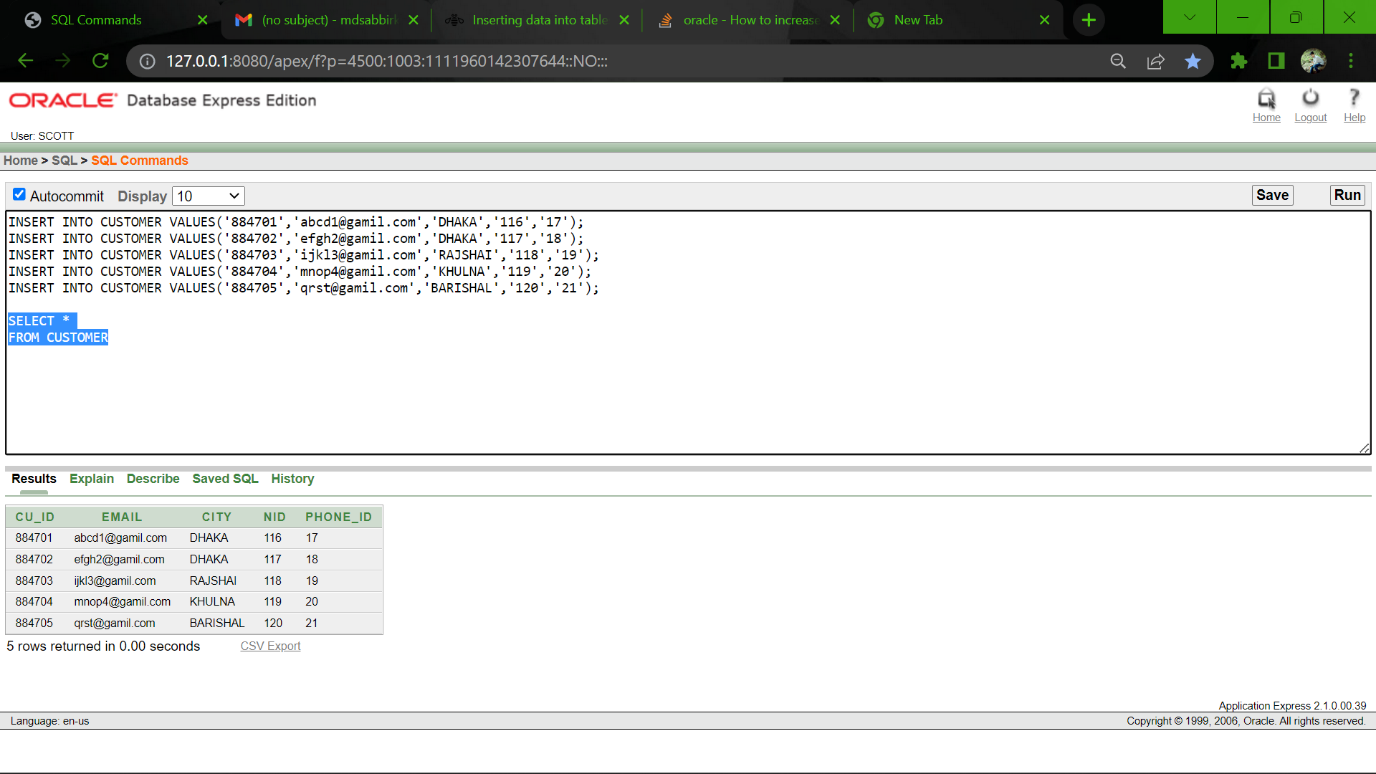
INSERT INTO CUSTOMER VALUES('884702','efgh2@gamil.com','DHAKA','117','18');

INSERT INTO CUSTOMER VALUES('884703','ijkl3@gamil.com','RAJSHAI','118','19');

INSERT INTO CUSTOMER VALUES('884704','mnop4@gamil.com','KHULNA','119','20');

INSERT INTO CUSTOMER VALUES('884705','qrst@gamil.com','BARISHAL','120','21');

SELECT \*

FROM CUSTOMER

**PAYMENT TABLE:**

9.

INSERT INTO PAYMENT VALUES( '7701','10000','BKASH');

INSERT INTO PAYMENT VALUES( '7702','12000','NAGAD');

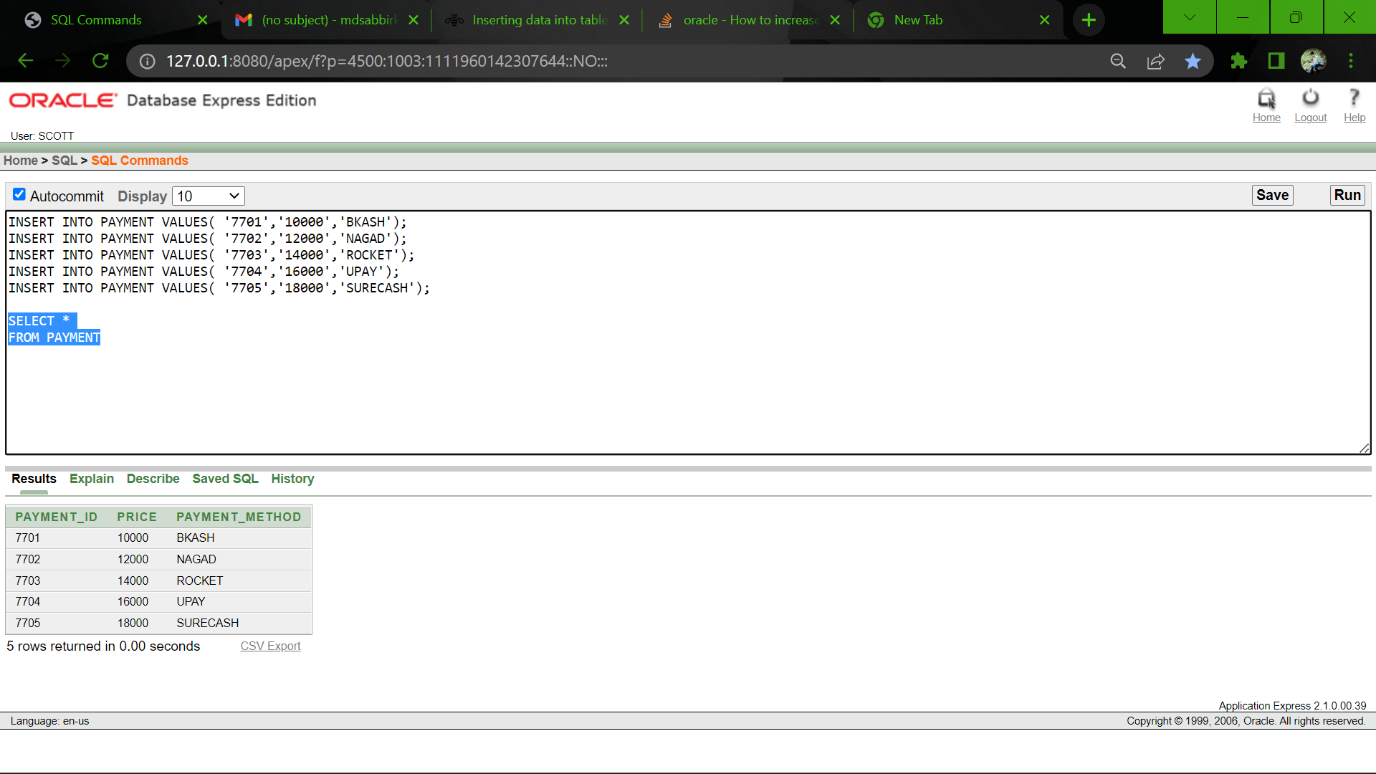
INSERT INTO PAYMENT VALUES( '7703','14000','ROCKET');

INSERT INTO PAYMENT VALUES( '7704','16000','UPAY');

INSERT INTO PAYMENT VALUES( '7705','18000','SURECASH');

SELECT \*

FROM PAYMENT

****

**MECH TABLE:**

10.

INSERT INTO MECH VALUES('88460011','02','03','02');

INSERT INTO MECH VALUES('88460012','01','02','03');

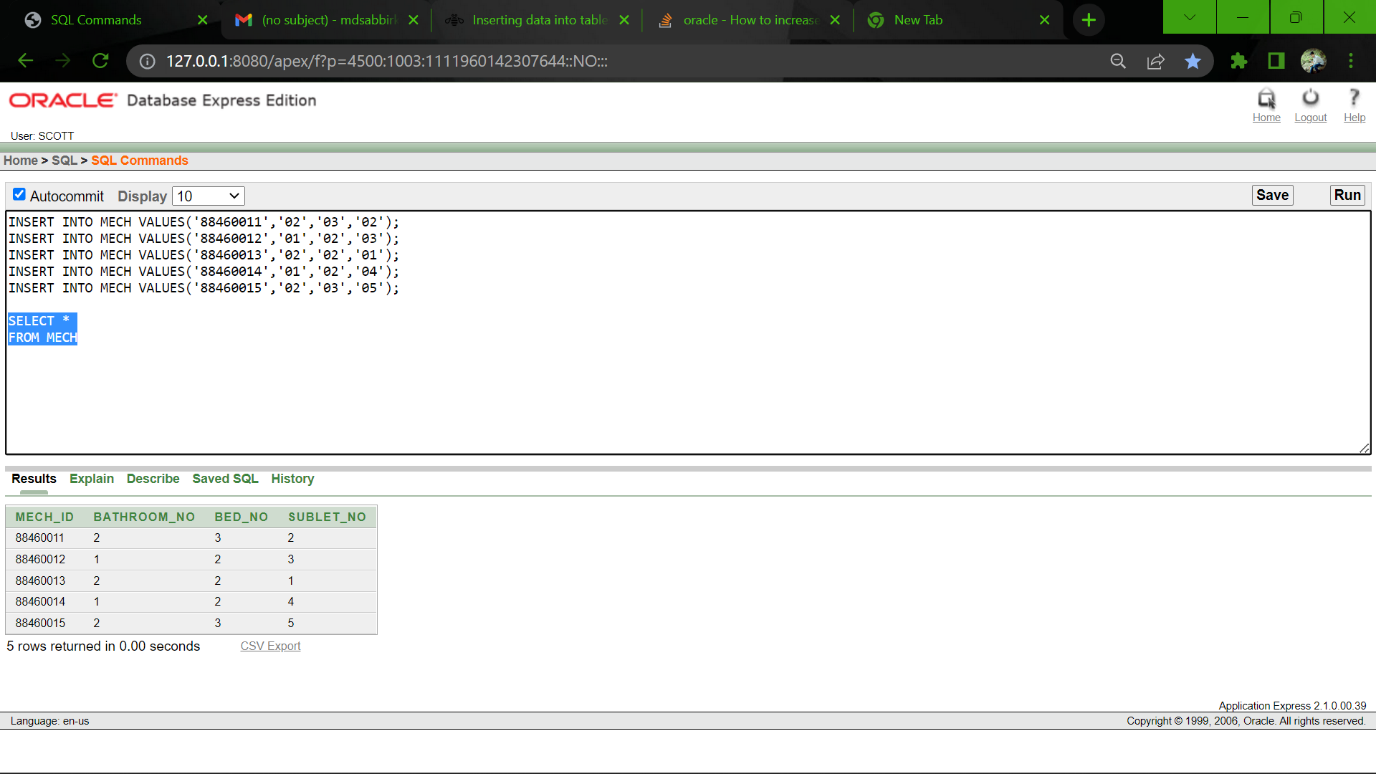
INSERT INTO MECH VALUES('88460013','02','02','01');

INSERT INTO MECH VALUES('88460014','01','02','04');

INSERT INTO MECH VALUES('88460015','02','03','05');

SELECT \*

FROM MECH



**SUBLET TABLE:**

11.

INSERT INTO SUBLET VALUES('8846001001','xyxyxy@gamil.com','CTG','121','88460011','22');

INSERT INTO SUBLET VALUES('8846001002','ababab01@gamil.com','DHAKA','122','88460012','23');

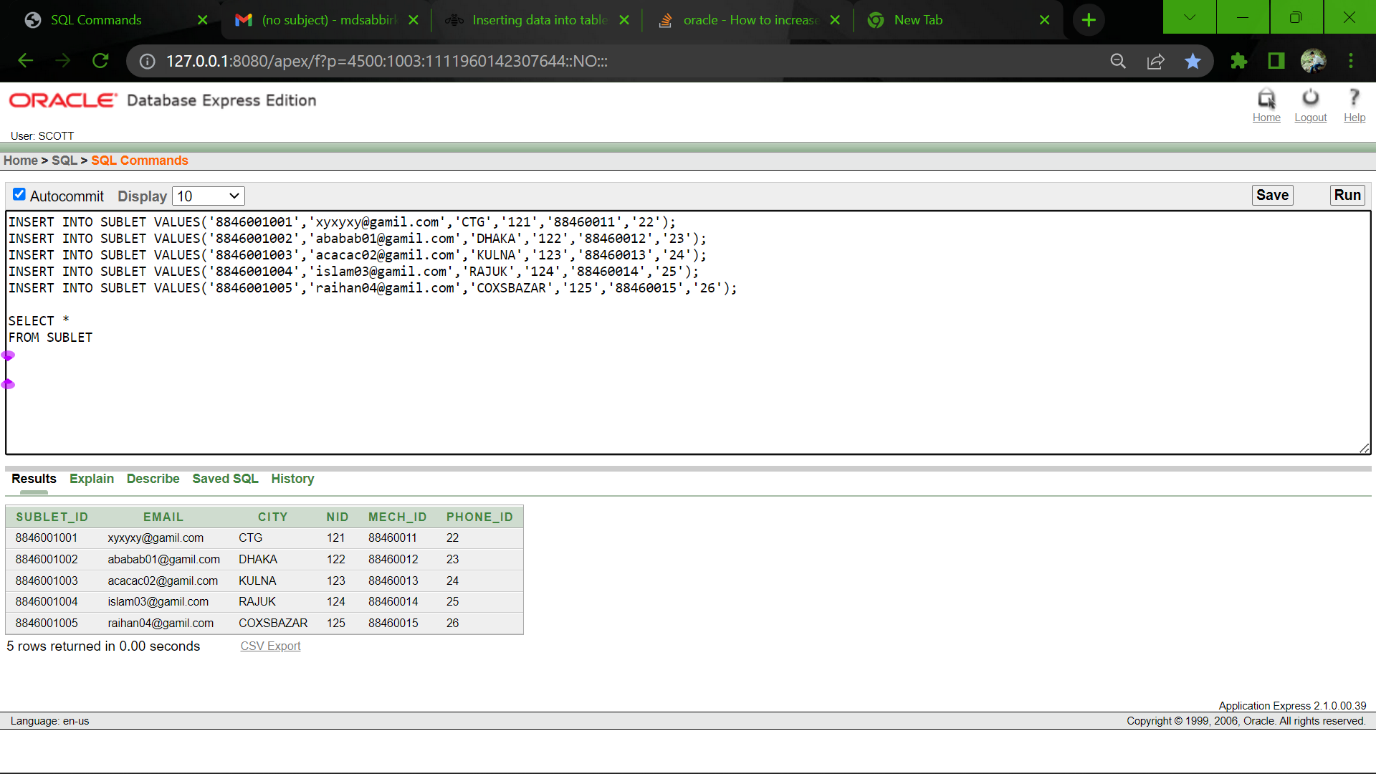
INSERT INTO SUBLET VALUES('8846001003','acacac02@gamil.com','KULNA','123','88460013','24');

INSERT INTO SUBLET VALUES('8846001004','islam03@gamil.com','RAJUK','124','88460014','25');

INSERT INTO SUBLET VALUES('8846001005','raihan04@gamil.com','COXSBAZAR','125','88460015','26');

SELECT \*

FROM SUBLET

****

**RENTAL ITEM TABLE:**

12.

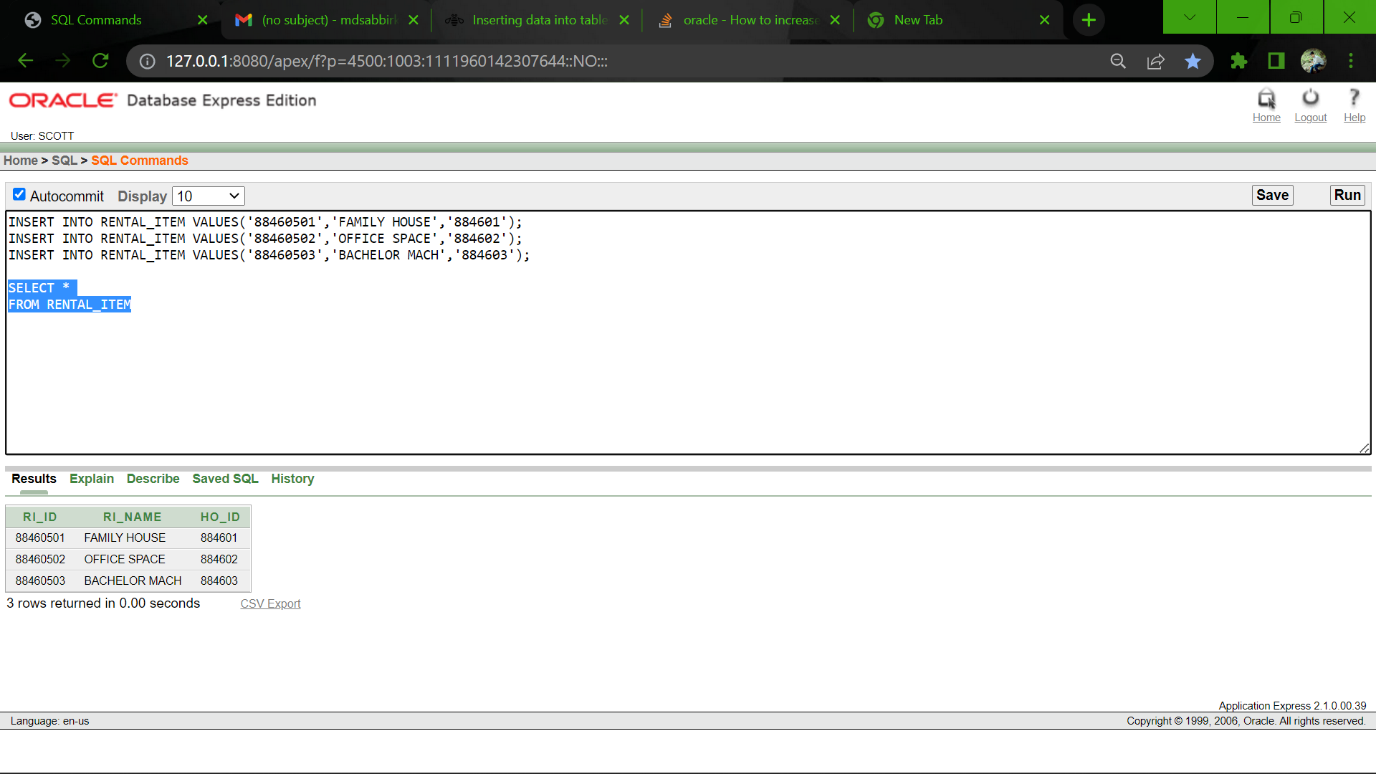
INSERT INTO RENTAL\_ITEM VALUES('88460501','FAMILY HOUSE','884601');

INSERT INTO RENTAL\_ITEM VALUES('88460502','OFFICE SPACE','884602');

INSERT INTO RENTAL\_ITEM VALUES('88460503','BACHELOR MACH','884603');

SELECT \*

FROM RENTAL\_ITEM



**FAMILY HOUSE TABLE:**

13.

INSERT INTO FAMILY\_HOUSE VALUES('88460111','YES','01','YES','1005');

INSERT INTO FAMILY\_HOUSE VALUES('88460112','YES','02','NO','1006');

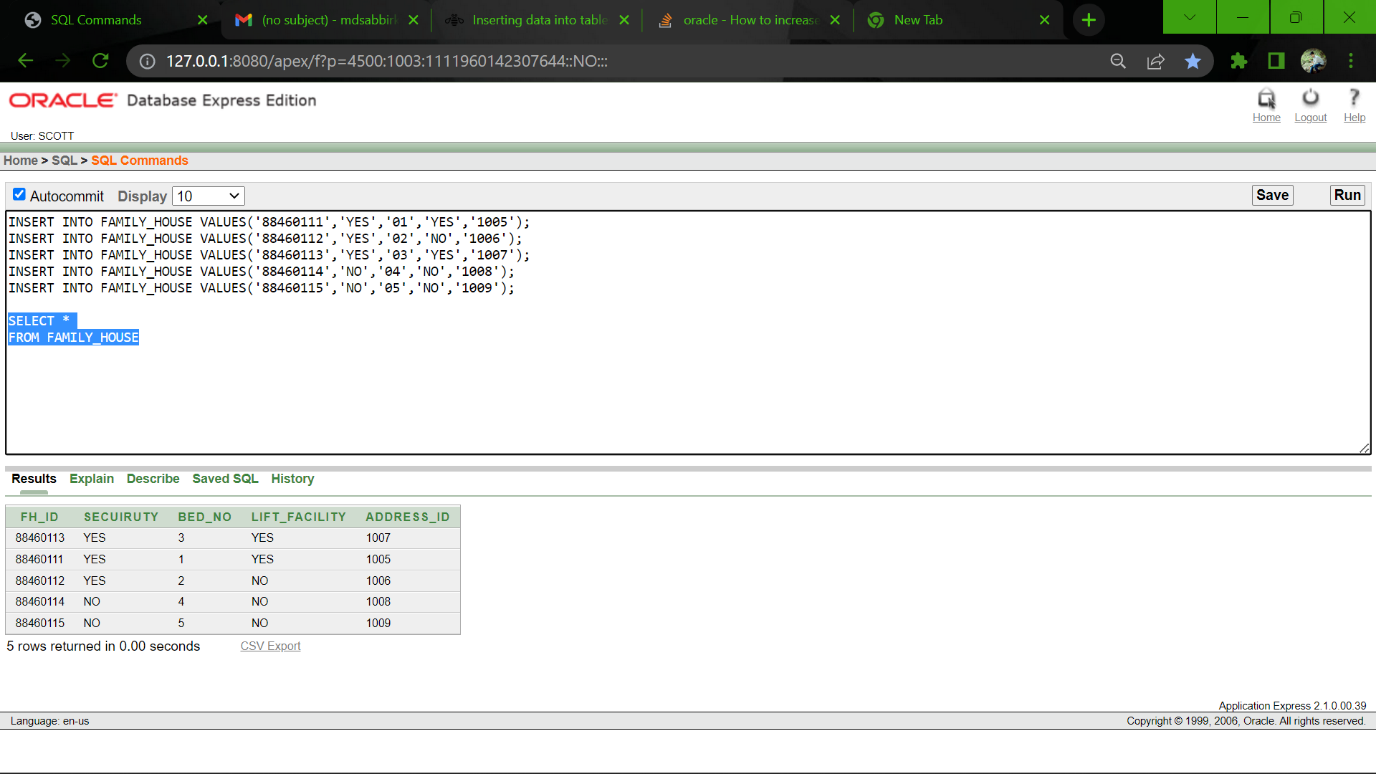
INSERT INTO FAMILY\_HOUSE VALUES('88460113','YES','03','YES','1007');

INSERT INTO FAMILY\_HOUSE VALUES('88460114','NO','04','NO','1008');

INSERT INTO FAMILY\_HOUSE VALUES('88460115','NO','05','NO','1009');

SELECT \*

FROM FAMILY\_HOUSE

****

**OFFICE SPACE TABLE:**

14.

INSERT INTO OFFICE\_SPACE VALUES('88460211','2440\*2400','YES','YES','YES','1010');

INSERT INTO OFFICE\_SPACE VALUES('88460212','2440\*1600','YES','YES','YES','1011');

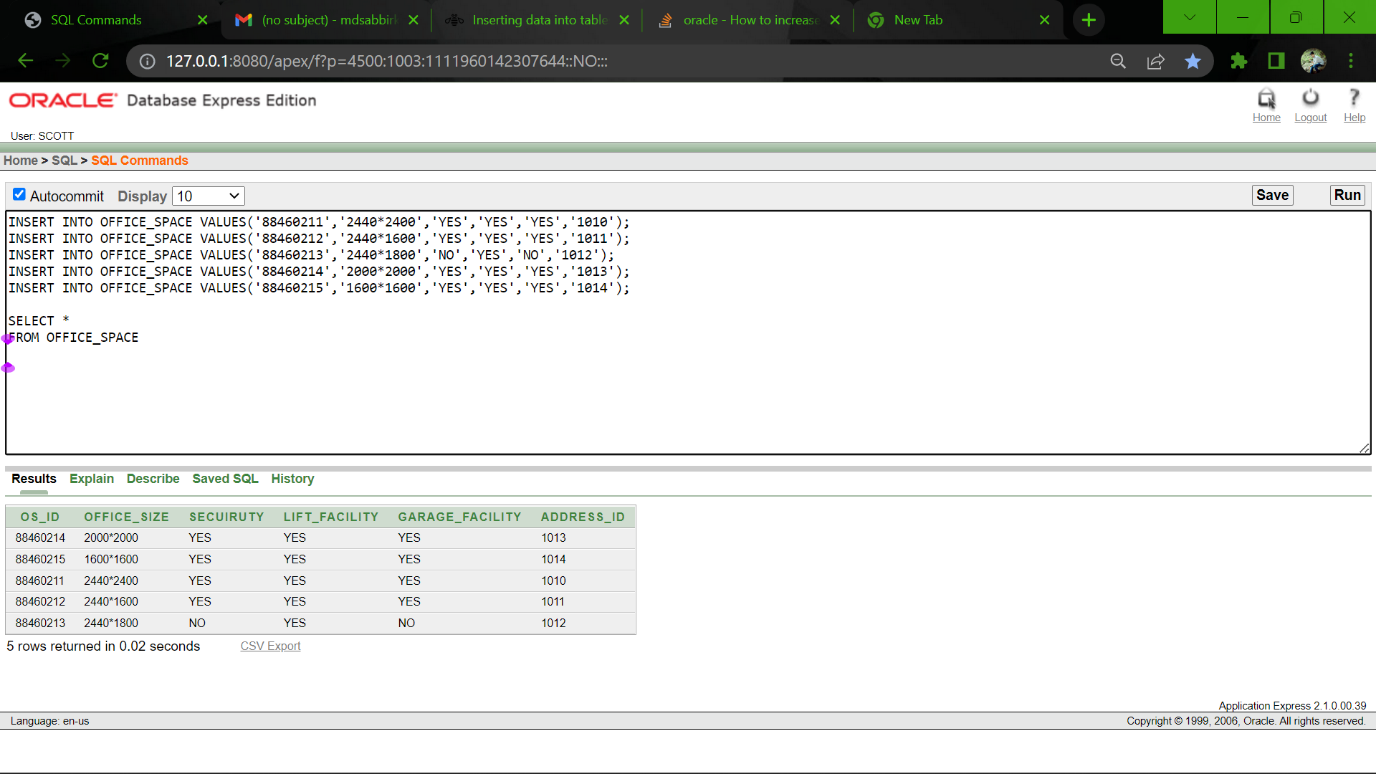
INSERT INTO OFFICE\_SPACE VALUES('88460213','2440\*1800','NO','YES','NO','1012');

INSERT INTO OFFICE\_SPACE VALUES('88460214','2000\*2000','YES','YES','YES','1013');

INSERT INTO OFFICE\_SPACE VALUES('88460215','1600\*1600','YES','YES','YES','1014');

SELECT \*

FROM OFFICE\_SPACE

****

**Sequence:**

1.

CREATE SEQUENCE PHONE\_ID\_SEQ

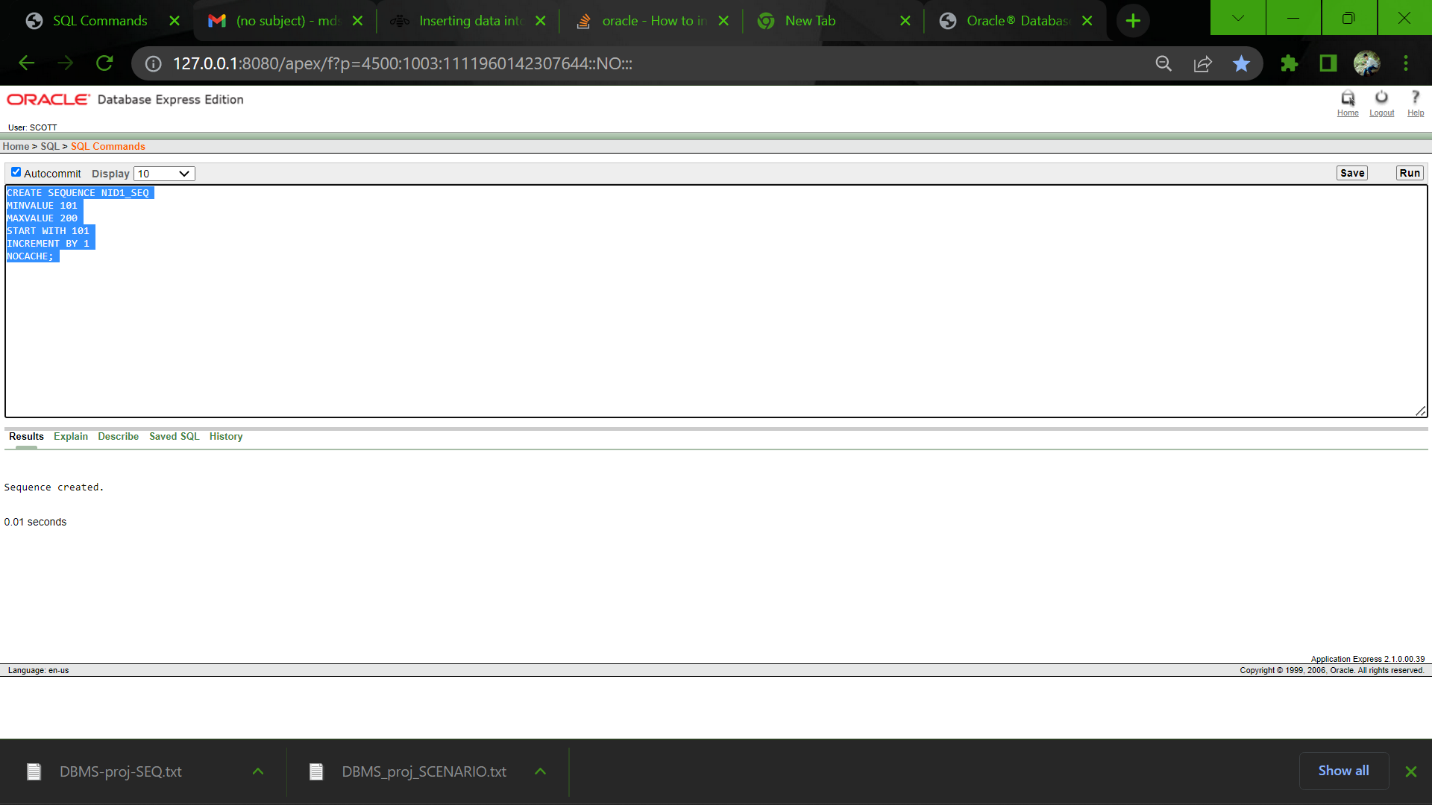
MINVALUE 1

MAXVALUE 100

START WITH 1

INCREMENT BY 1

NOCACHE;



2.

CREATE SEQUENCE NID1\_SEQ

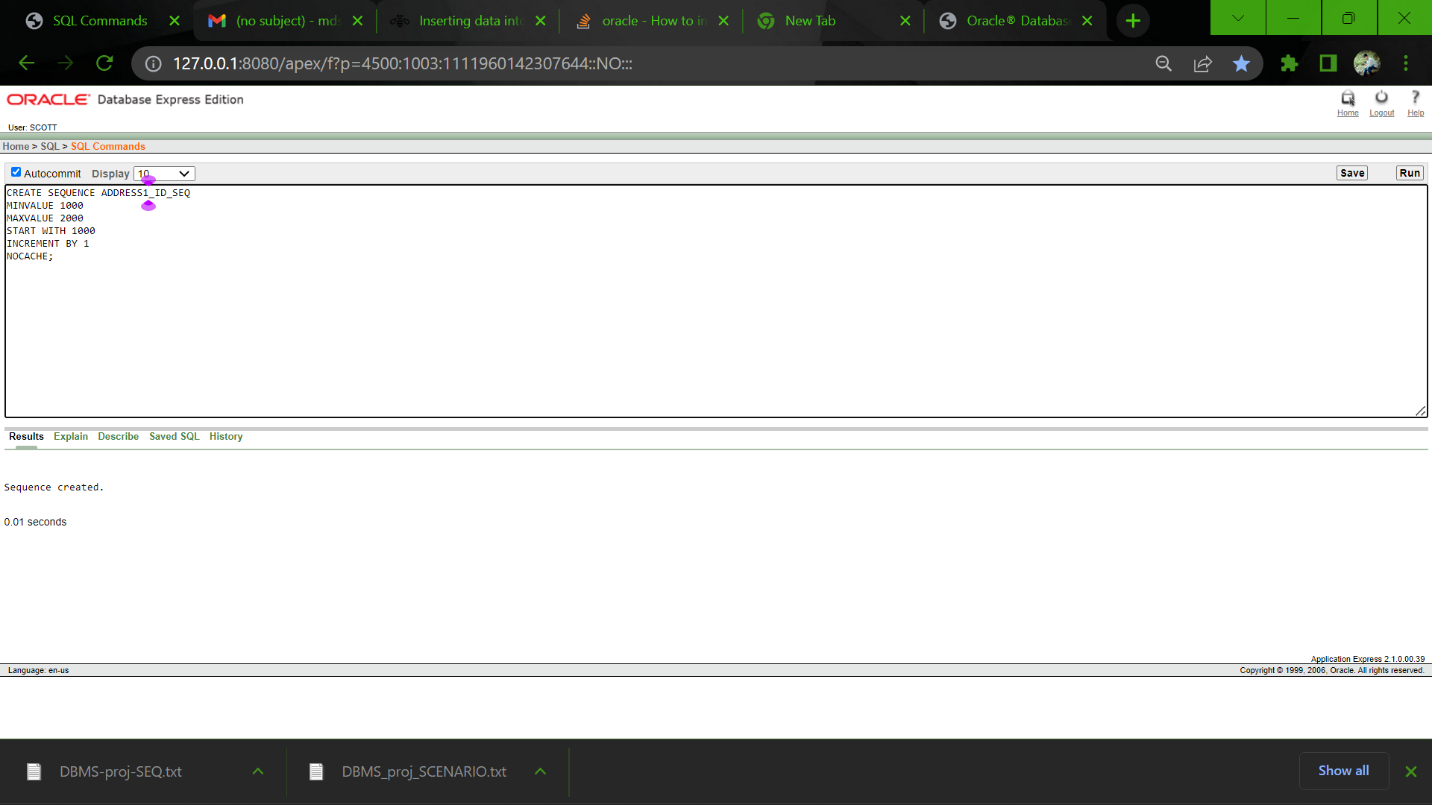
MINVALUE 101

MAXVALUE 200

START WITH 101

INCREMENT BY 1

NOCACHE;



3.

CREATE SEQUENCE ADDRESS1\_ID\_SEQ

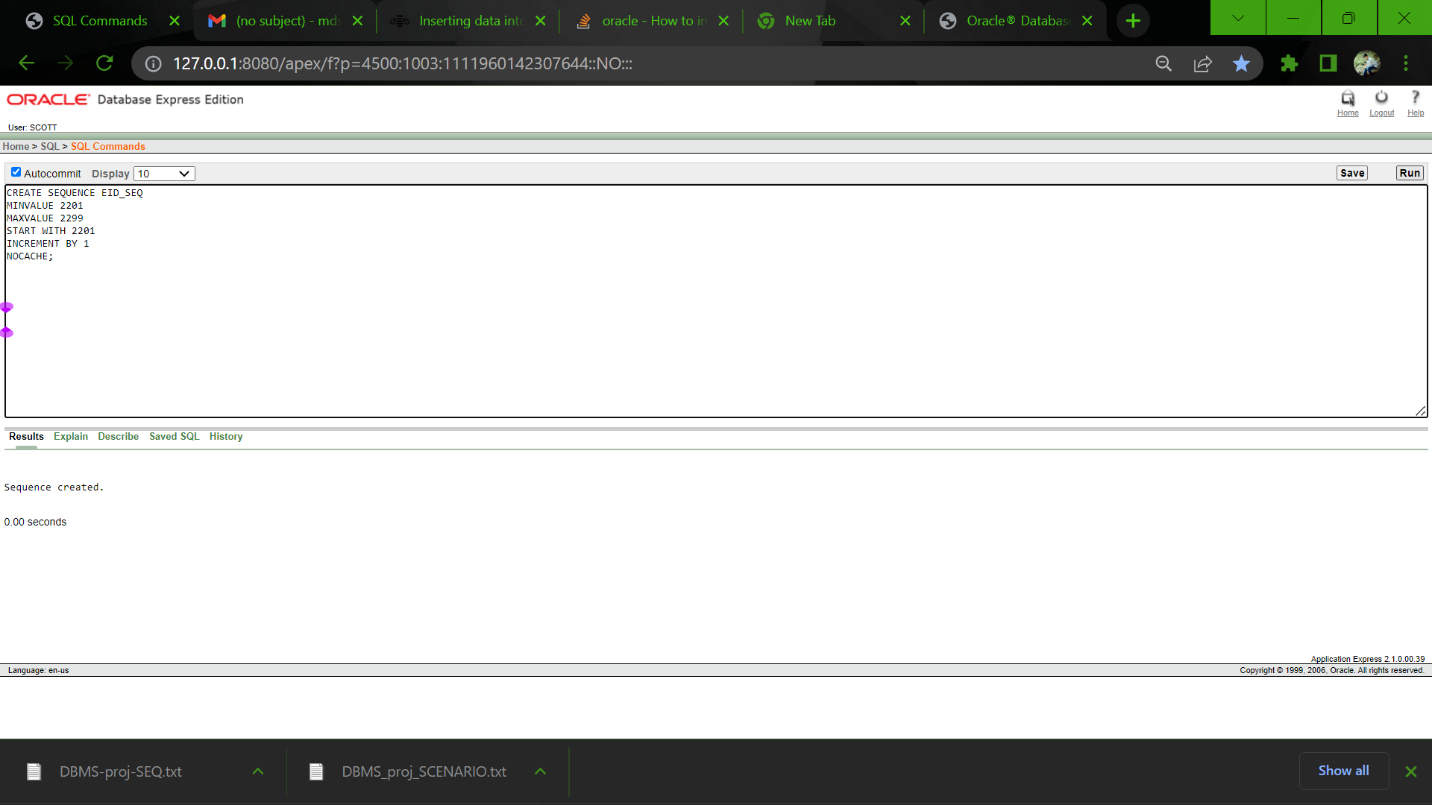
MINVALUE 1000

MAXVALUE 2000

START WITH 1000

INCREMENT BY 1

NOCACHE;



4.

CREATE SEQUENCE EID\_SEQ

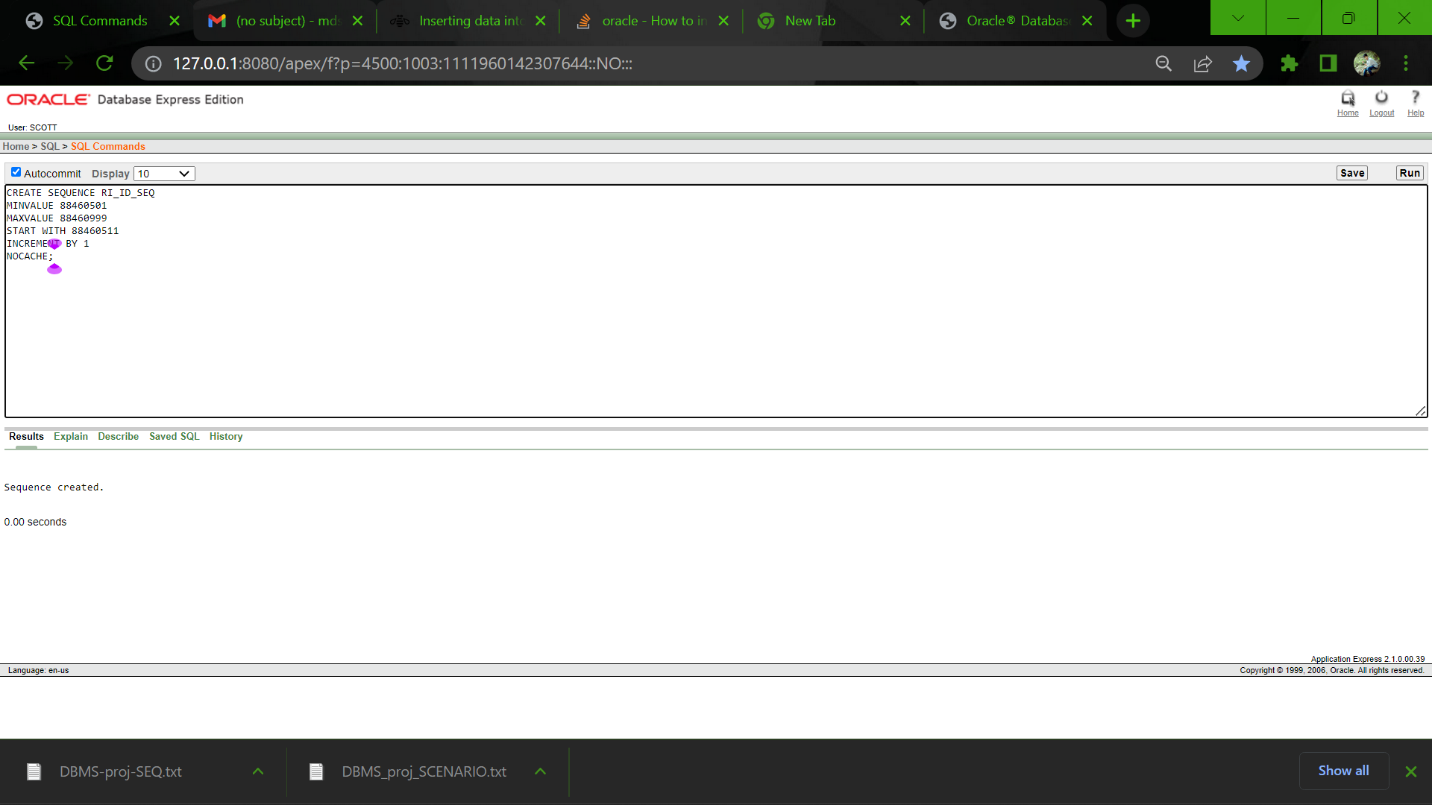
MINVALUE 2201

MAXVALUE 2299

START WITH 2201

INCREMENT BY 1

NOCACHE;



5.

CREATE SEQUENCE DEPTCODE\_SEQ

MINVALUE 8801

MAXVALUE 8820

START WITH 8801

INCREMENT BY 1

NOCACHE;

Graphical user interface, text, application, email

Description automatically generated

6.

CREATE SEQUENCE HO\_ID\_SEQ

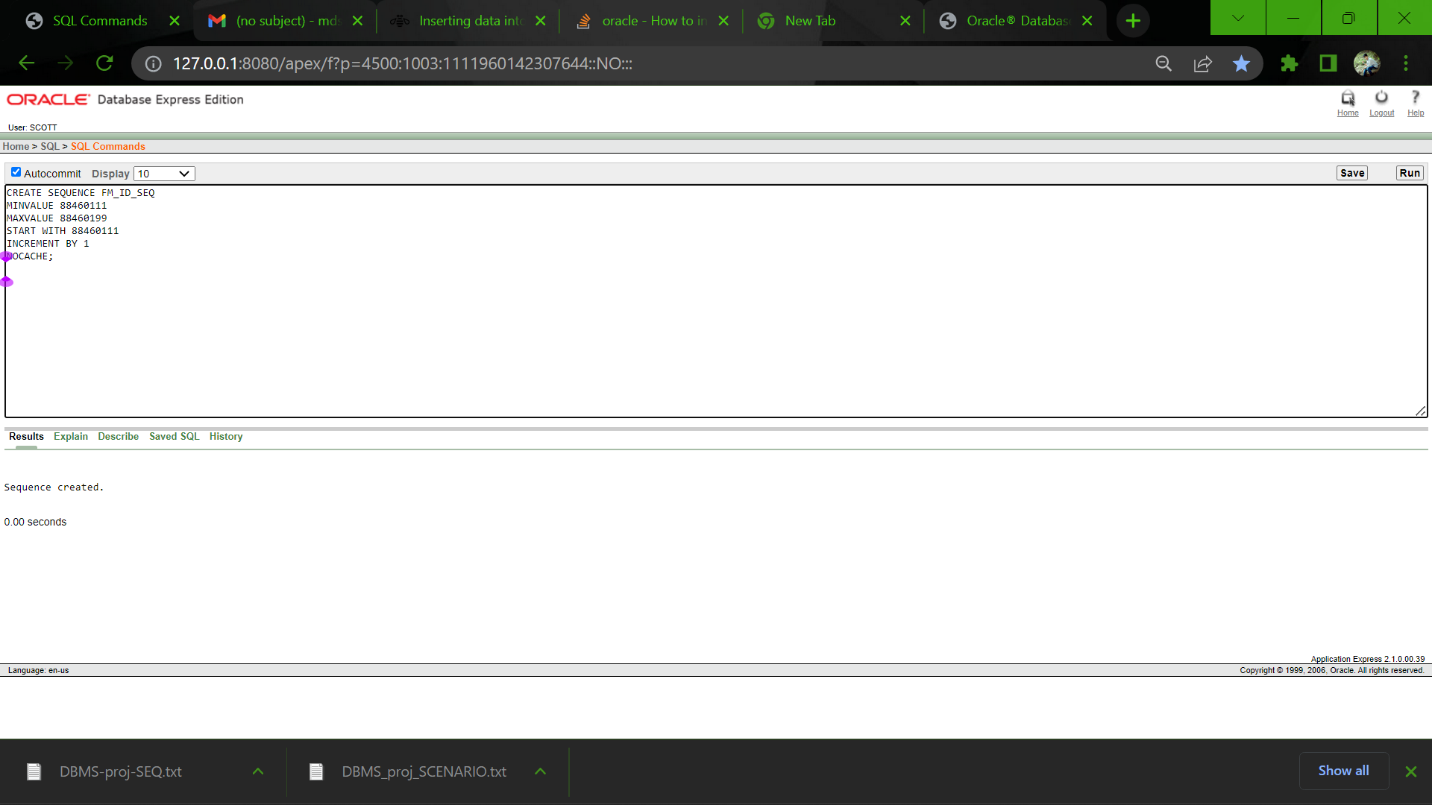
MINVALUE 884601

MAXVALUE 884699

START WITH 884601

INCREMENT BY 1

NOCACHE;



7.

CREATE SEQUENCE CU\_ID\_SEQ

MINVALUE 884701

MAXVALUE 884799

START WITH 884701

INCREMENT BY 1

NOCACHE;

Graphical user interface, text, application, email

Description automatically generated

8.

CREATE SEQUENCE PAYMENT\_ID\_SEQ

MINVALUE 7701

MAXVALUE 7799

START WITH 7701

INCREMENT BY 1

NOCACHE;

Graphical user interface, text, application, email

Description automatically generated

9.

CREATE SEQUENCE MECH\_ID\_SEQ

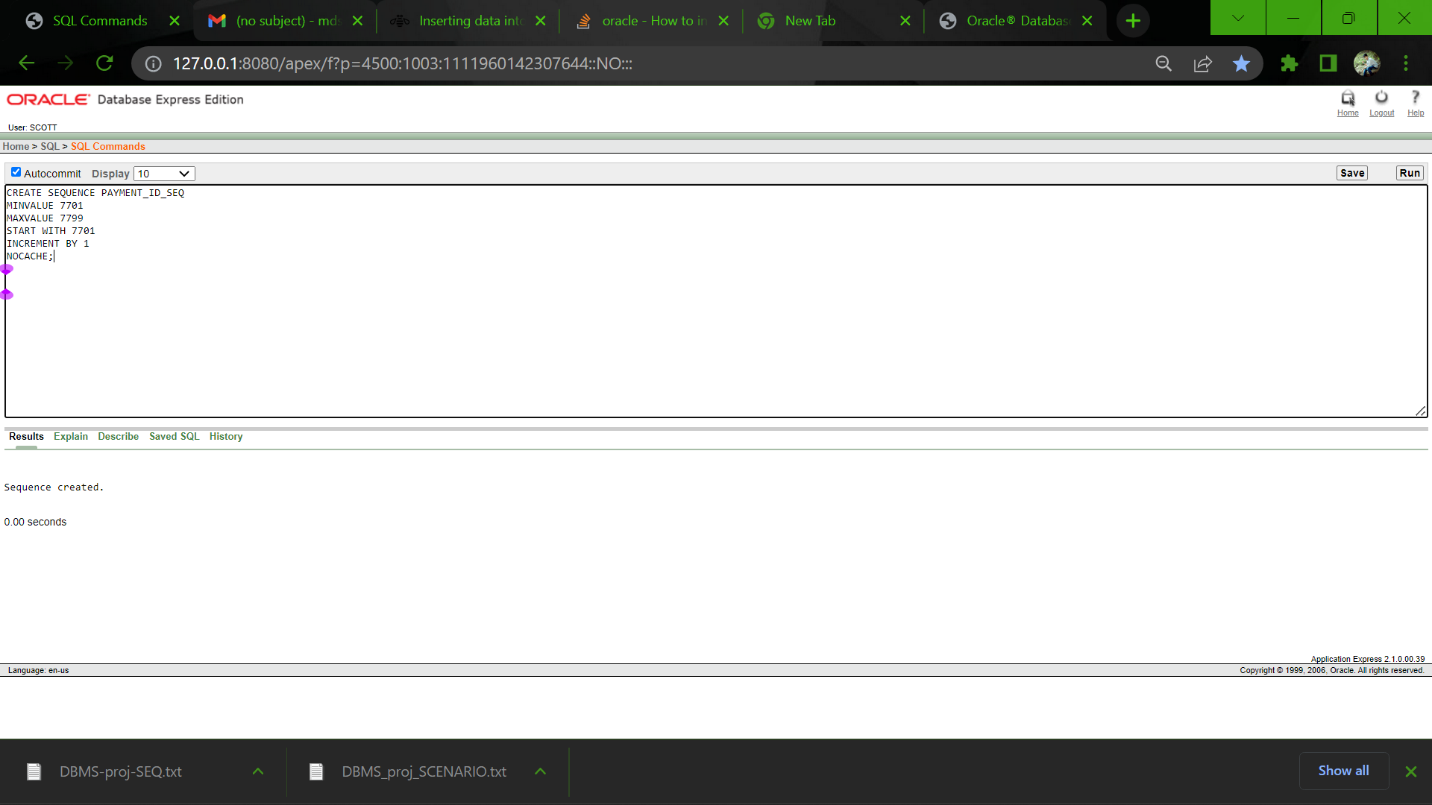
MINVALUE 88460011

MAXVALUE 88460099

START WITH 88460011

INCREMENT BY 1

NOCACHE;



10.

CREATE SEQUENCE SUBLET\_ID\_SEQ

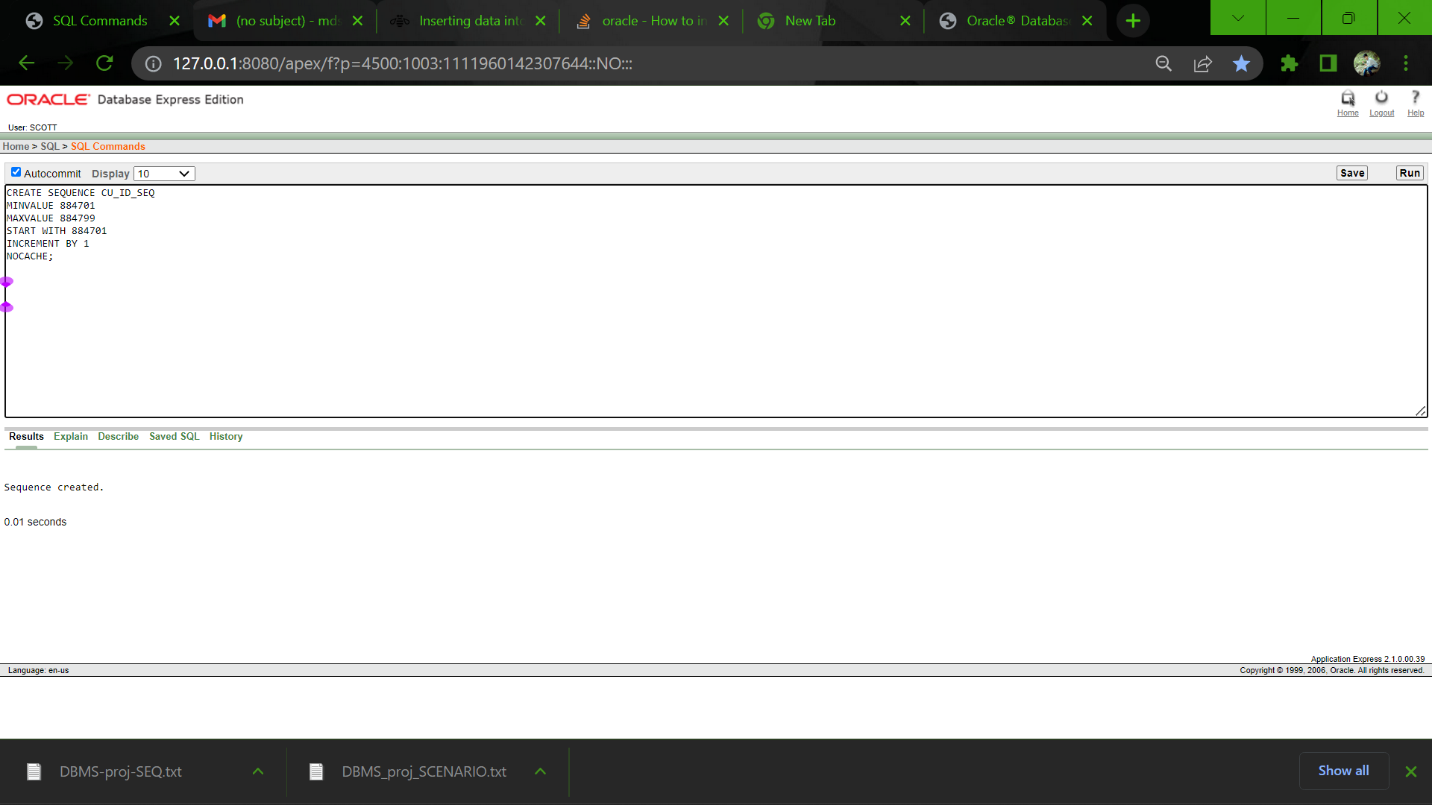
MINVALUE 8846001001

MAXVALUE 8846001200

START WITH 8846001001

INCREMENT BY 1

NOCACHE;



11.

CREATE SEQUENCE FM\_ID\_SEQ

MINVALUE 88460111

MAXVALUE 88460199

START WITH 88460111

INCREMENT BY 1

NOCACHE;

Graphical user interface, text, application, email

Description automatically generated

12.

CREATE SEQUENCE OS\_ID\_SEQ

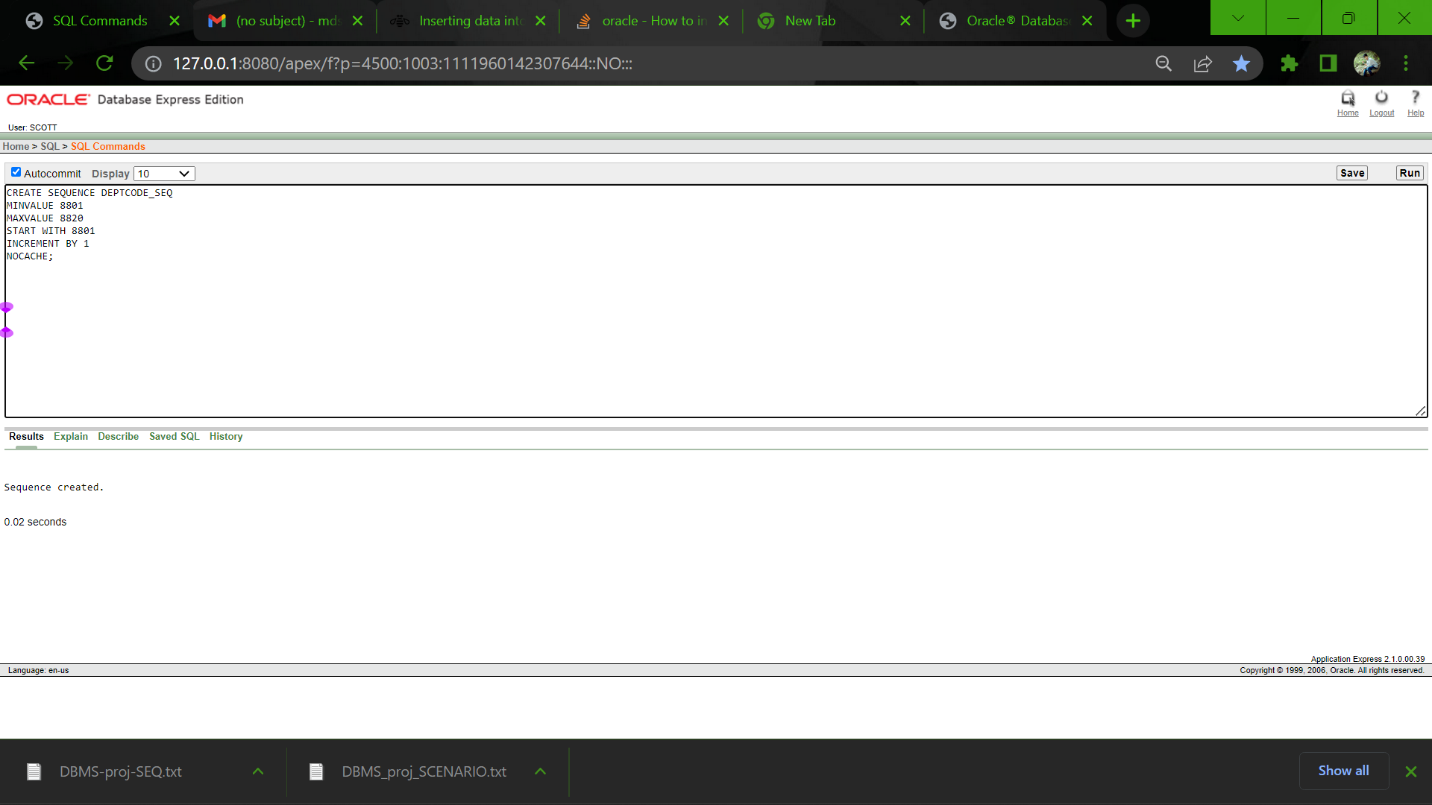
MINVALUE 88460211

MAXVALUE 88460299

START WITH 88460211

INCREMENT BY 1

NOCACHE;



13.

CREATE SEQUENCE RI\_ID\_SEQ

MINVALUE 88460501

MAXVALUE 88460999

START WITH 88460511

INCREMENT BY 1

NOCACHE;

Graphical user interface, text, application, email

Description automatically generated

**Queries:**

1.Show the Employee ID,Salary, First & Last name from Employee and Name Table using Joining

Table

Description automatically generated

SELECT EMPLOYEE.E\_ID,EMPLOYEE.SALARY,NAME.FIRST\_NAME, NAME.LAST\_NAME

FROM EMPLOYEE,NAME

WHERE EMPLOYEE.NID=NAME.NID;

2. Write a Query to show the Price and Payment-id from Payment Table where the price is greater then the price of Payment\_id = 7702.

SELECT PAYMENT\_ID,PRICE

FROM PAYMENT

WHERE PRICE>(SELECT PRICE

FROM PAYMENT

WHERE PAYMENT\_ID = 7702);

Table

Description automatically generated

3. Show the Minimum price, Maximum Price avg Price from Payment Table

SELECT MIN(PRICE),MAX(PRICE),AVG(PRICE)

FROM PAYMENT

Graphical user interface, text, application

Description automatically generated

4.Write a query to join Sublet table and Name Table & find the Sublets name where name ha S letter at first

SELECT S.NID,S.CITY,N.FIRST\_NAME,N.NID

FROM SUBLET S,NAME N

WHERE S.NID=N.NID

AND FIRST\_NAME LIKE 'S%'



5. Create a view for customer 884701 & 884704 to show their ID and Address

CREATE VIEW CUSTOMERVU

AS SELECT CU\_ID ID,CITY ADDRRESS

FROM CUSTOMER

WHERE CU\_ID = 884701

OR CU\_ID = 884704

SELECT \*

FROM CUSTOMERVU

Graphical user interface, text, application

Description automatically generated

6. Create view for Family house table to show ID, Bed No, Lift Facility

CREATE VIEW FAMILY\_HOUSEVU

AS SELECT FH\_ID ID,LIFT\_FACILITY LIFT,BED\_NO BEDROOM

FROM FAMILY\_HOUSE

SELECT \*

FROM FAMILY\_HOUSEVU

Table

Description automatically generated

7. Use Literal Character query to show all the output like “ #### use Bkash to pay the Price ###”

From Payment table

SELECT PAYMENT\_ID||' use '||PAYMENT\_METHOD||' to pay price '||PRICE

FROM PAYMENT

Text, table

Description automatically generated with medium confidence

8. Increase the Salary by 5000 of the Finance Department AND Marketing Department

SELECT DEPT\_NAME,SALARY+5000

FROM DEPARTMENT

WHERE DEPT\_NAME = 'FINANCE'

OR DEPT\_NAME = 'MARKETING'

Graphical user interface, table

Description automatically generated with medium confidence

9. Show the city,street no, house no, of House Owner from House Owner and Address Table

SELECT HOUSE\_OWNER.HO\_ID,ADDRESS.HOUSE\_NO,ADDRESS.STREET\_NO,ADDRESS.CITY

FROM HOUSE\_OWNER,ADDRESS

WHERE HOUSE\_OWNER.ADDRESS\_ID=ADDRESS.ADDRESS\_ID;

Table

Description automatically generated

10. Find the Salary & the Name of the Department where Salary is greater then 2000

SELECT DEPT\_CODE,DEPT\_NAME,SALARY

FROM DEPARTMENT

WHERE SALARY < 20000

Graphical user interface, text, application

Description automatically generated