

**Project Name:** **FOOD DELIVERY MANAGEMENT SYSTEM.**

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|  |
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**Course Name: Introduction to Database.**

**Section: H**

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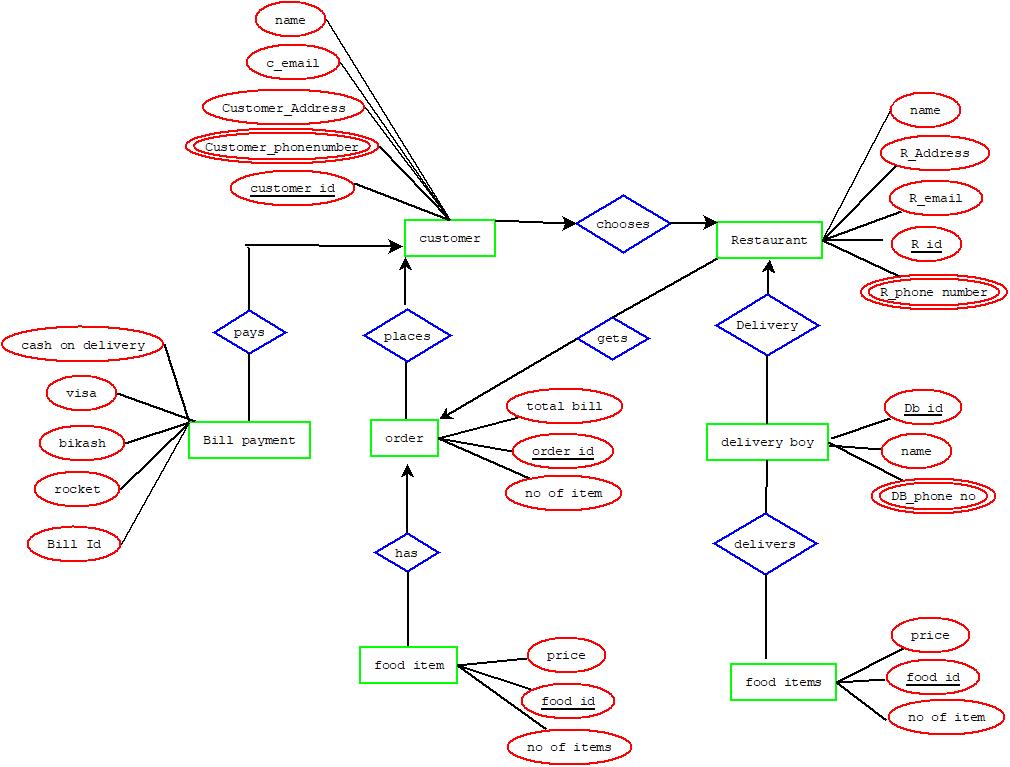
**Introduction:**

Food is always a vital element in our life to survive. When one can get food easily in his/her door, life gets easier. Food delivery system is such a medium by which we can get food easily at our doorstep. In this system the owner has to maintain a database to run the Food delivery system smoothly. There are some of the factors that a database creator needs to focus while creating the database. In food delivery application, database system has to be set up neatly to maintain location of restaurants, restaurants’ food items, delivery details, payment methods, customers’ details etc. This system has been set up to manage all those necessities all in combine.

**Scenario Description:**

Firstly, in a food delivery management system a subscribed customer can order from any restaurant. One can order one or multiple items from any one restaurant at a time which defines one to many relationship. This system is accustomed to store customer contact details and address. A customer details section is comprised of customer name, id, phone number, email and delivery address while customer delivery address is consisted of house number, road number and block number. A restaurant is identified by restaurant details that is stored of area, name, phone number, email and address. While ordering food, the customer has to choose one restaurant and the order details is recorded that includes order id, track of order, number of items and total bill. One restaurant can take multiple orders at a time that states one to many relationship with order. An order is recorded when the customer chooses the food item. A food is composed of name, price, number of items and name. An order can have multiple number of food items that defines one to many relationship. After setting the order, the customer has to confirm the payment method. A payment method can have various options- cash on delivery, visa, bikash, rocket. This also is defined as one to many relationship. After confirmation, a restaurant passes the selected food item(s) to the delivery boy according to the order id and the customer id. Every delivery boy has an individual detail that is consisted of delivery man name, id and phone number. There is many to many relationship between delivery boy and restaurant. One delivery boy can have multiple number of food items that states one to many relationship between them.

**ER-Diagram:**

****

**Normalization:**

**Pays:**

**Unf:**

(customer\_id, name, email, Address, c\_phonenumber, cash\_on\_delivery, visa, bikash, rocket, bill id)

**1st NF:**

Phonenumber is multivalued.

1. name, email, Address, customer\_id, cash\_on\_delivery, visa, bikash, rocket, bill id

**2nd NF:**

1. name, email, Address, phonenumber, customer\_id

2. cash\_on\_delivery, visa, bikash, rocket, bill id

3rd NF

There is no transitive dependency.

**Table creation:**

1. customer\_id, bill\_id

2.name, email, Address, c­­\_phonenumber, customer\_id

3.cash on delivery, visa, bikash, rocket, bill id

4. c\_phonenumber\_id, c\_phonenumber

**Places:**

**unf:**

(name,email, address, phonenumber, customer\_id, total bill, order\_id,no\_of\_item, delivery\_phonenumber)

**1st NF:**

delivery­\_phonenumber,

phonenumber is the multivalued.

1. total bill,Order\_id, no of item,name,email,Address, customer\_id

**2nd Nf:**

1. email,address,phonenumber,customer\_id

2. total bill,order\_id,no of item,deliveryphonenumber

**3rd nf:**

1. There is no transitive dependency

**Table creation:**

1. order\_id,customer\_id, place\_id

2. total bill,order\_id,no\_of\_item,delivery\_phone\_no

3. phonenumber,phonenumber\_id

4. delivery\_phoneno\_id, delivery\_phone\_no

**Has:**

**unf**

(total bill,Order\_id, no of item,deliveryphoneno,price,food\_id,no of item)

**1st NF:**

delivery phone number is the multivalued.

1. bill,Order\_id, no of item ,price,food\_id,no of item

**2nd NF:**

1. total bill,Order\_id, no of item,deliveryphoneno

2. price, food\_id,no of item

**3rd NF:**

There is no transitive dependency

**Table creation:**

1. total bill,order\_id, no of item,delivery\_phone\_no

2. delivery\_phoneno\_id, delivery\_phone\_no

3. price,food\_id,no of item

4.h\_id, order\_id, food\_id

**Choose:**

**unf:**

(name,email,address,C\_phonenumber,customer\_id,name,address, email,R\_id,R\_phonenumber)

**1st NF:**

C\_phonenumber,R\_phonenumber is the maltivalue

1. name,email,address,C\_phonenumber,customer\_id,name,address email,R\_id,R\_phonenumber

**2nd NF:**

1. name,email,address,C\_phonenumber,customer\_id

2. name,address email,R\_id,R\_phonenumber

**3rd nf:**

There is no transitive dependency.

**Table creation:**

1. c\_id,name,email,address,c\_phonenumber

2. name,address email,R\_phonenumber

3. R\_phonenumberid, R\_phonenumber

4. c\_id, customer\_id, R\_id

**Gets:**

**UNF:**

(name,address, email,R\_id,R\_phonenumber, total bill,Order\_id, no of item,deliveryphoneno)

**1st NF:**

R\_phonenumber, deliveryphoneno is the multivalued

1. name,address, email,R\_id, total bill,Order\_id, no of item

**2nd NF:**

1. name,address, email,R\_id,R\_phonenumber

2. total bill,Order\_id, no of item,deliveryphoneno

**3rd NF:**

There is no transitive dependency:

**Table creation:**

1. name,address, email,R\_id,R\_phonenumber

2. total bill,order\_id, no of item,delivery\_phone\_no

3. delivery\_phoneno\_id, delivery\_phone\_no

4. gets\_id, R\_id, order\_id

**hires:**

**UNF:**

( name,address email,R\_phonenumber,R\_ID,name,db\_ID,Db\_phonenumber)

**1st nf:**

1.R\_phonenumber,DB\_phonenumber is maltivalue

name,address email,R\_ID,name,db\_ID,

**2nd nf:**

1. name,address email,R\_phonenumber,R\_id

2.name,db\_id,db\_phonenumber

**3rd nf:**

there is no transitive dependency

**Table creation:**

1. name,address email,R\_phonenumber,r\_id

2. name,db\_id,db\_phonenumber

3. db\_phonenumber\_id, db\_phonenumber

4. db\_id, r\_id, hires\_id

**delivers:**

**UNF:**

(name,DB\_ID,DB\_Phonenumber,Price,Food\_id,No of item)

**1st NF:**

DB\_phonenumber is the multivalue

1. name,DB\_ID ,Price,Food\_id,No of item

**2nd NF:**

1. name,DB\_ID,DB\_Phonenumber

2. Price,Food\_id,No of item

**3rd NF:**

There is no transitive dependency.

**Table creation:**

1. delivers\_id, db\_id, food\_id

2. price,food\_id,no of item

3. name,db\_id,db\_phonenumber

4.. db\_phonenumber\_id, db\_phonenumber

**Final tables:**

1. name, email, Address, c­­ustomer\_phonenumber, customer\_id

2. customer\_phonenumber\_id,customer\_phonenumber

3. cash\_on\_delivery, visa, bikash, rocket, bill id

4. customer\_id, bill\_id, pays\_id

5. total bill,order\_id,no\_of\_item

6. order\_id,customer\_id, place\_id

7. price,food\_id,no of item

8.has\_id, order\_id, food\_id

9. R\_id ,name,address email,R\_phonenumber

10. R\_phonenumberid, R\_phonenumber

11. choose\_id, customer\_id, R\_id

12. gets\_id, R\_id, order\_id

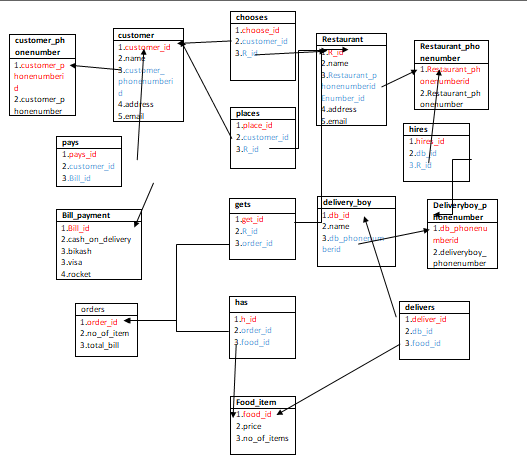
13. name,db\_id,db\_phonenumber

14. db\_phonenumber\_id, db\_phonenumber

15. db\_id, r\_id, hires\_id

16. deliver\_id, db\_id, food\_id

**Schema Diagram:**



**Tables Creation:**

1.CREATE TABLE customer(customer\_id number(3)primary key, name varchar(15),email varchar(20),address varchar(20),customer\_phonenumberid number);

ALTER TABLE customer add constraint Fok1 foreign key(customer\_phonenumberid) references customer\_phonenumber1(customer\_phonenumberid);

2.CREATE TABLE customer\_phonenumber(customer\_phonenumberid number(3)primary key,customer\_phonenumber number);

3.CREATE TABLE Bill\_payment(bill\_id number(3)primary key,cash\_on\_delivery number(5),visa number(5),bikash number(5),rocket number(5));

4.CREATE TABLE pays( pays\_id number(3)primary key,customer\_id number(3),bill\_id number(3));

ALTER TABLE pays add constraint Fok2 foreign key(customer\_id) references customer(customer\_id);

ALTER TABLE pays add constraint Fok3 foreign key(bill\_id) references Bill\_payment(bill\_id);

5. CREATE TABLE orders(order\_id number(3)primary key,no\_of\_item number(3),total\_bill number(5));

6.CREATE TABLE places(place\_id number(3)primary key,customer\_id number(3),order\_id number(3));

ALTER TABLE places add constraint Fok5 foreign key(customer\_id) references customer(customer\_id);

ALTER TABLE places add constraint Fok6 foreign key(order\_id) references orders(order\_id);

7.CREATE TABLE food\_item(food\_id number(3) primary key, price number,no\_of\_items number(5));

8.CREATE TABLE has(h\_id number(3),order\_id number(3),food\_id number(3));

ALTER TABLE has add constraint Fok7 foreign key(order\_id) references orders(order\_id);

ALTER TABLE has add constraint Fok8 foreign key(food\_id) references food\_item(food\_id);

9.CREATE TABLE Restaurant(R\_id number(3)primary key,name varchar(15),address varchar(20),email varchar(20),Restaurant\_phonenumberid number(3));

ALTER TABLE Restaurant add constraint Fok9 foreign key(Restaurant\_phonenumberid) references Restaurant\_phonenumber(Restaurant\_phonenumberid);

10.CREATE TABLE Restaurant\_phonenumber(Restaurant\_phonenumberid number(3)primary key, Restaurant\_phonenumber number);

11.CREATE TABLE chooses(choose\_id number(3)primary key,customer\_id number(3),R\_id number(3));

ALTER TABLE chooses add constraint Fok10 foreign key(customer\_id) references customer(customer\_id);

ALTER TABLE chooses add constraint Fok11 foreign key(R\_id) references Restaurant(R\_id);

12.CREATE TABLE gets(get\_id number(3)primary key,R\_id number(3), order\_id number(3));

ALTER TABLE gets add constraint Fok12 foreign key(R\_id) references Restaurant(R\_id);

ALTER TABLE gets add constraint Fok13 foreign key(order\_id) references orders(order\_id);

13.CREATE TABLE delivery\_boy(db\_id number(3)primary key,name varchar(15),db\_phonenumberid number);

ALTER TABLE delivery\_boy add constraint Fok14 foreign key(db\_phonenumberid) references deliveryboy\_phonenumber(db\_phonenumberid);

14.CREATE TABLE deliveryboy\_phonenumber(db\_phonenumberid number(3)primary key,db\_phonenumber number);

15.CREATE TABLE hires(hires\_id number(3)primary key,db\_id number(3), r\_id number(3));

ALTER TABLE hires add constraint Fok15 foreign key(db\_id) references delivery\_boy(db\_id);

ALTER TABLE hires add constraint Fok16 foreign key(R\_id) references Restaurant(R\_id);

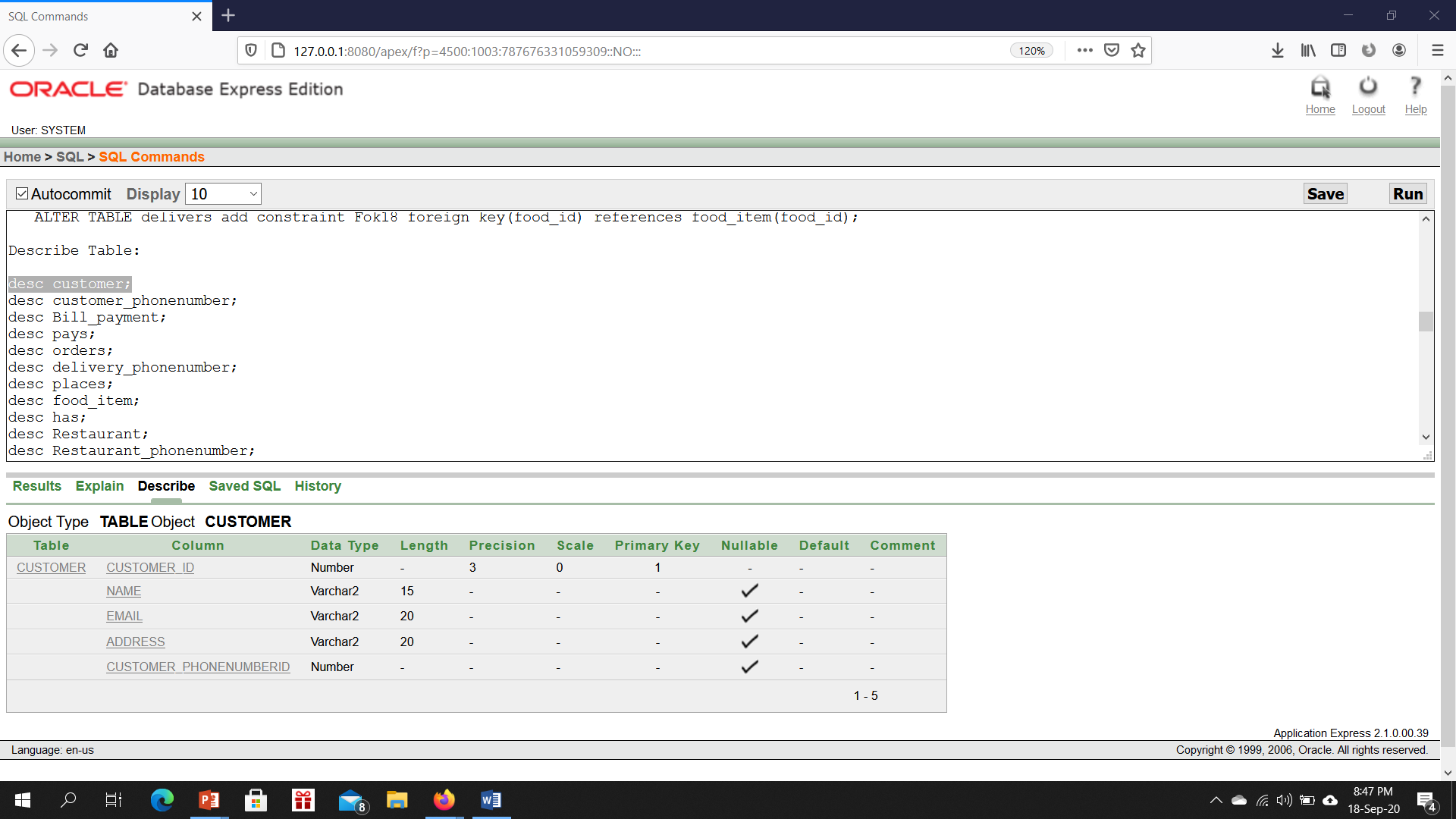
16.CREATE TABLE delivers(deliver\_id number(3)primary key, db\_id number(3), food\_id number(3));

ALTER TABLE delivers add constraint Fok17 foreign key(db\_id) references delivery\_boy(db\_id);

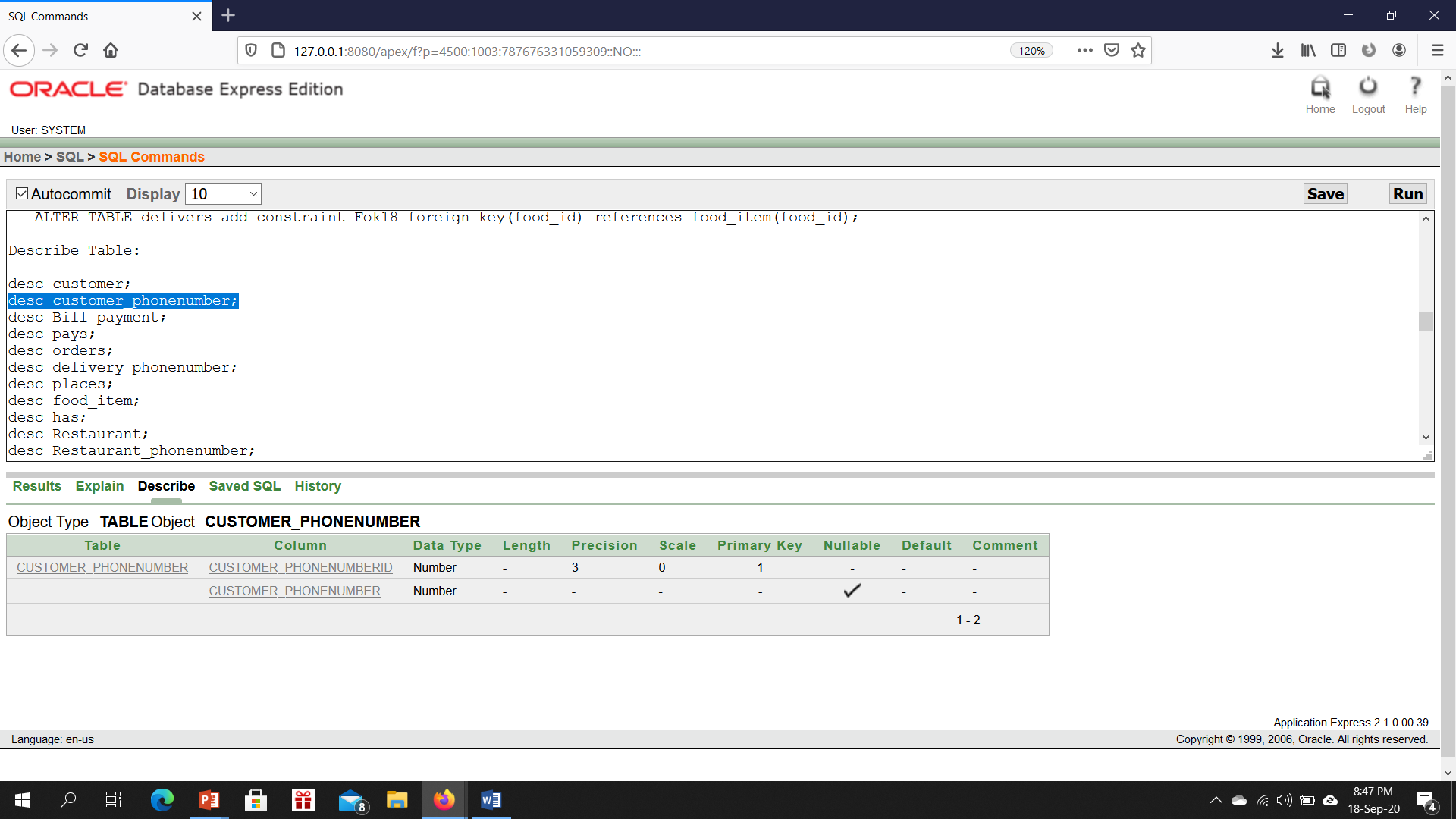
ALTER TABLE delivers add constraint Fok18 foreign key(food\_id) references food\_item(food\_id);

**Describe Table:**

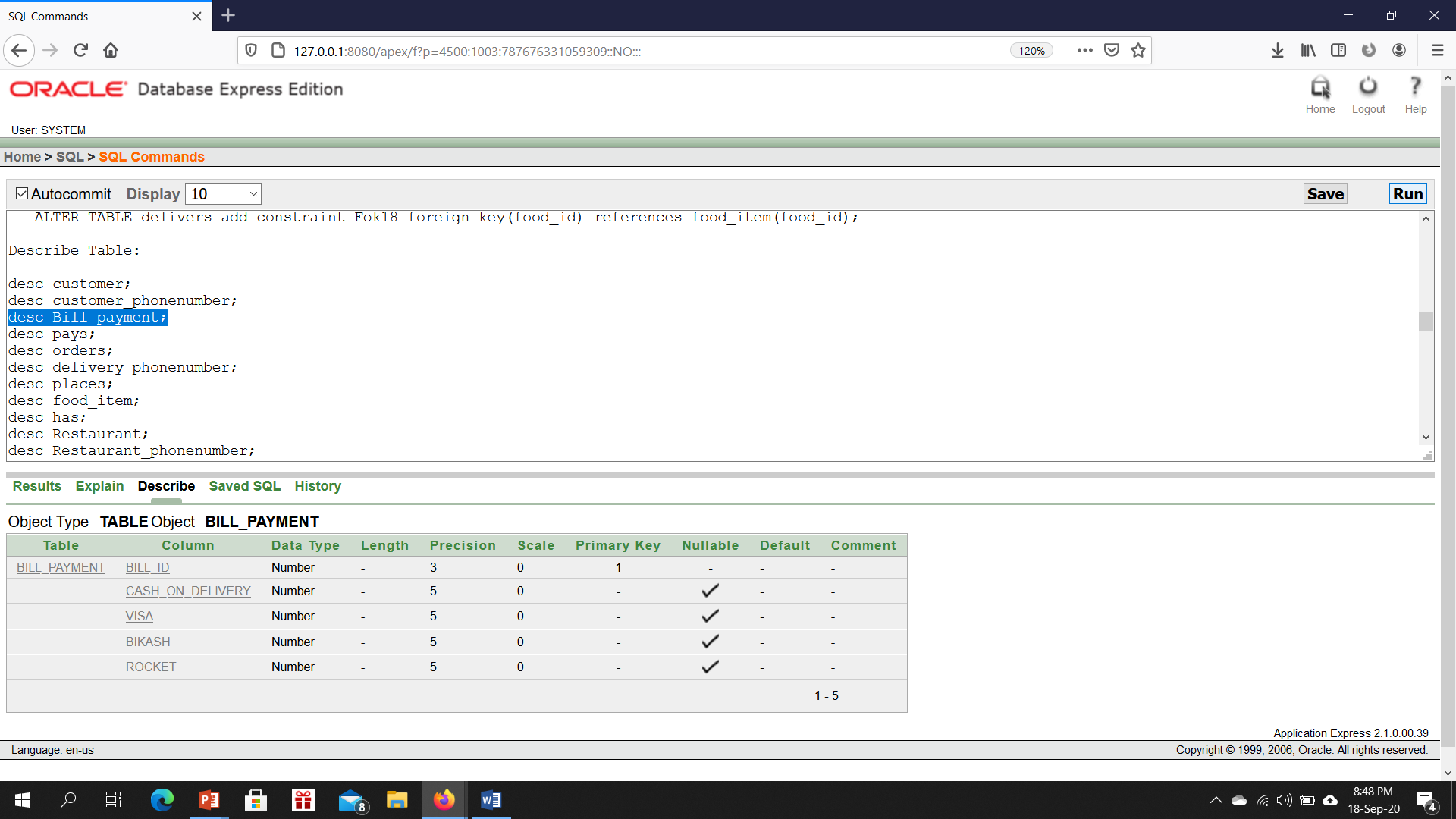
desc customer;



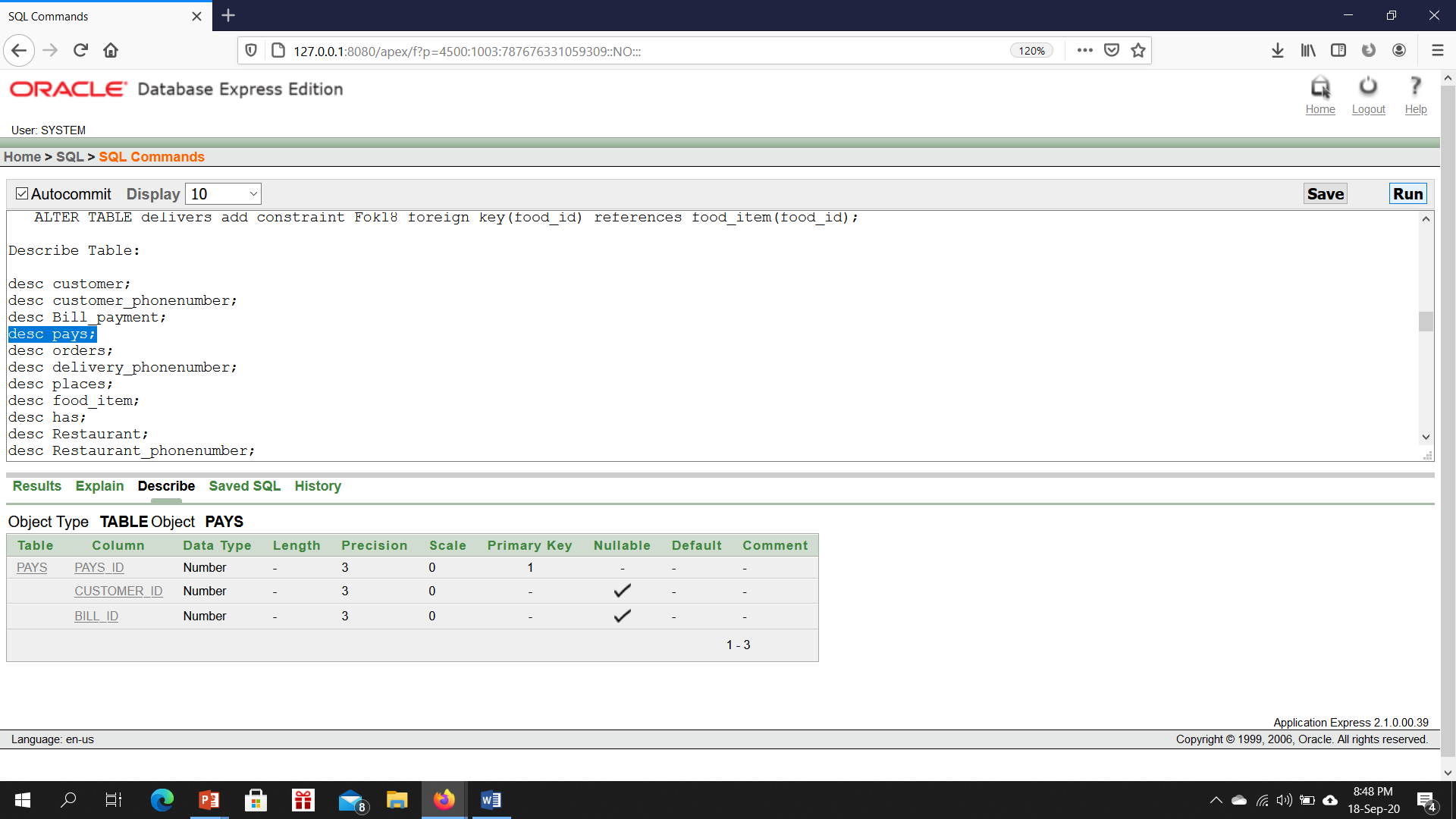
desc customer\_phonenumber;



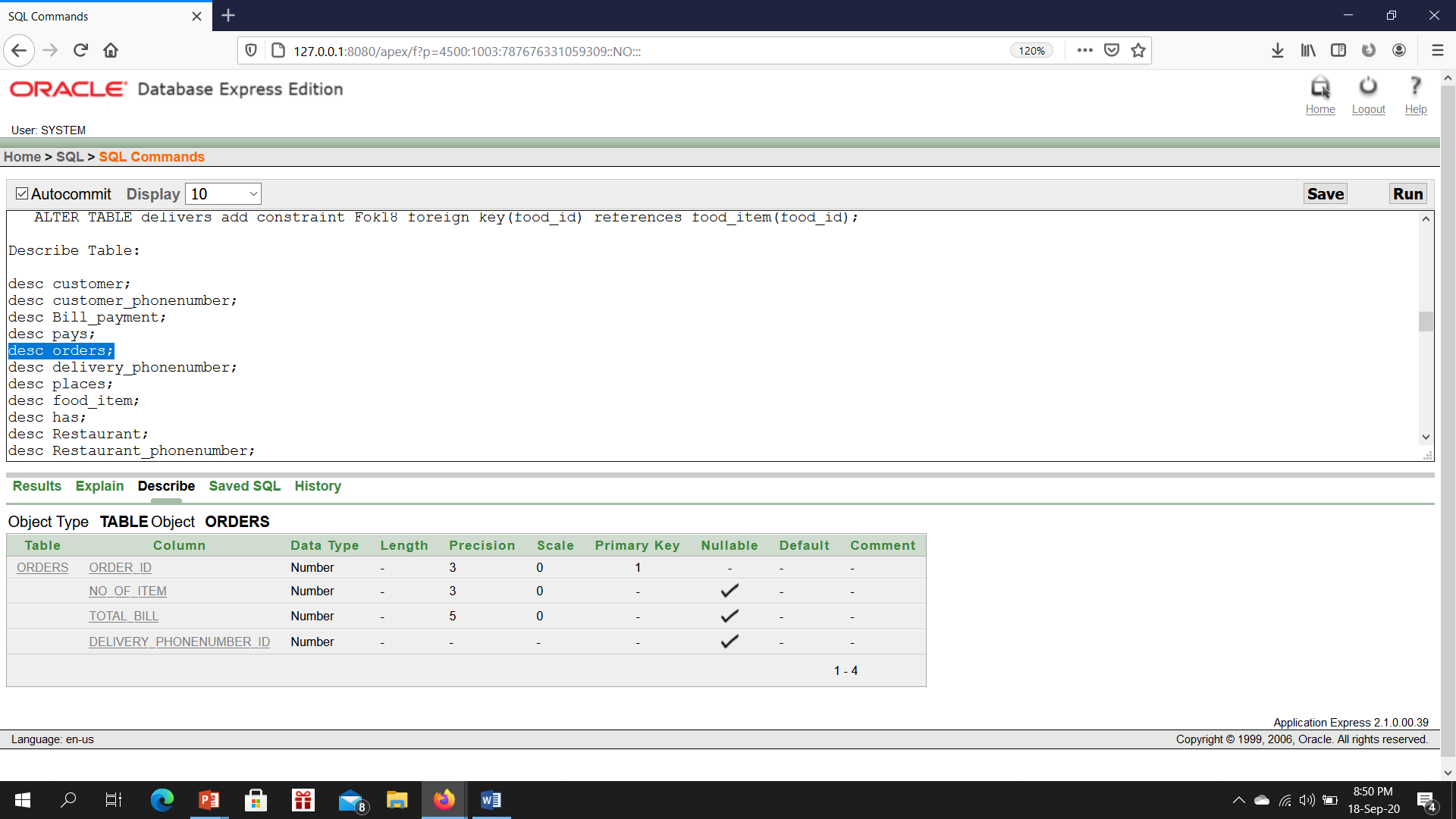
desc Bill\_payment;



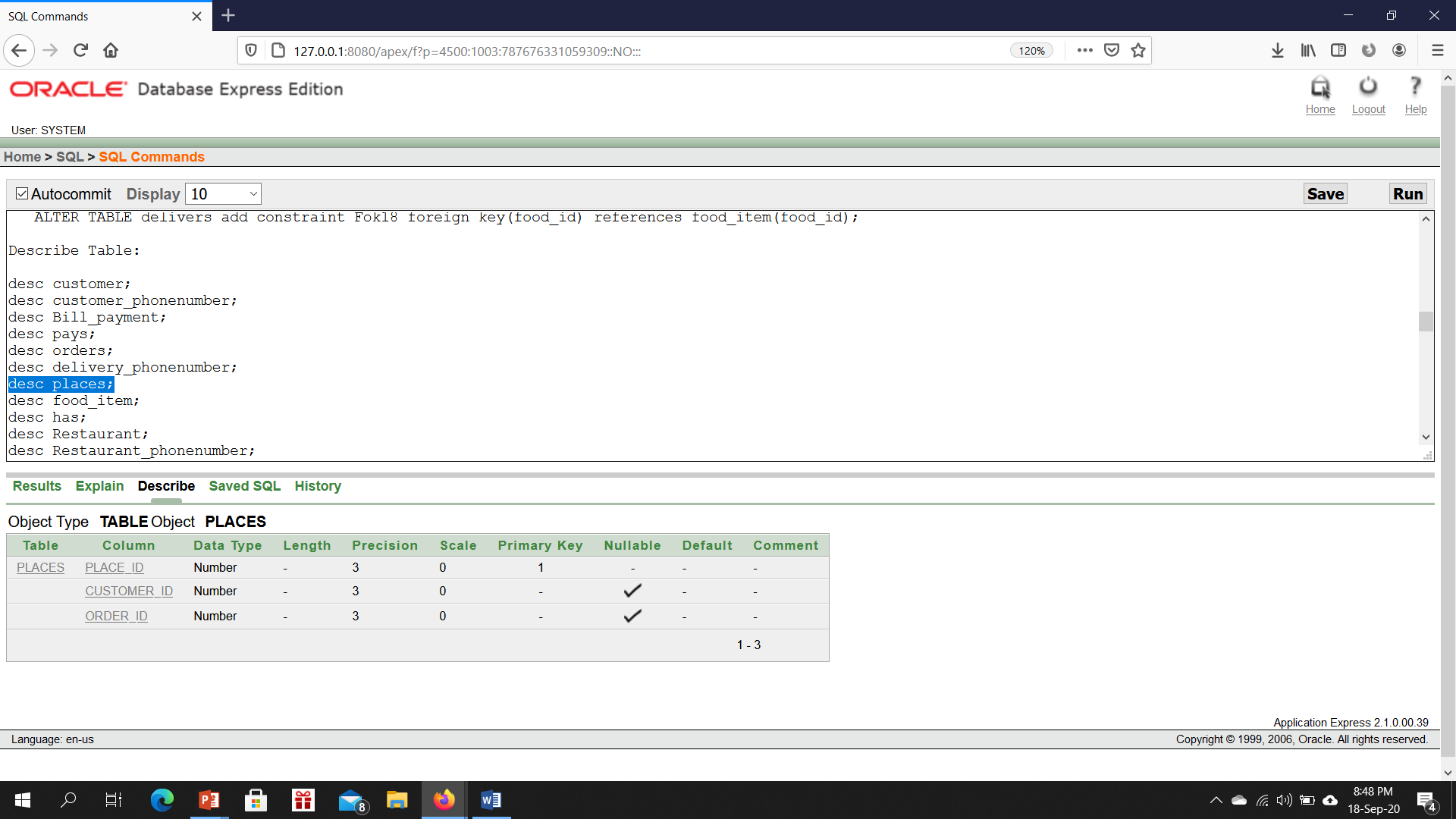
desc pays;



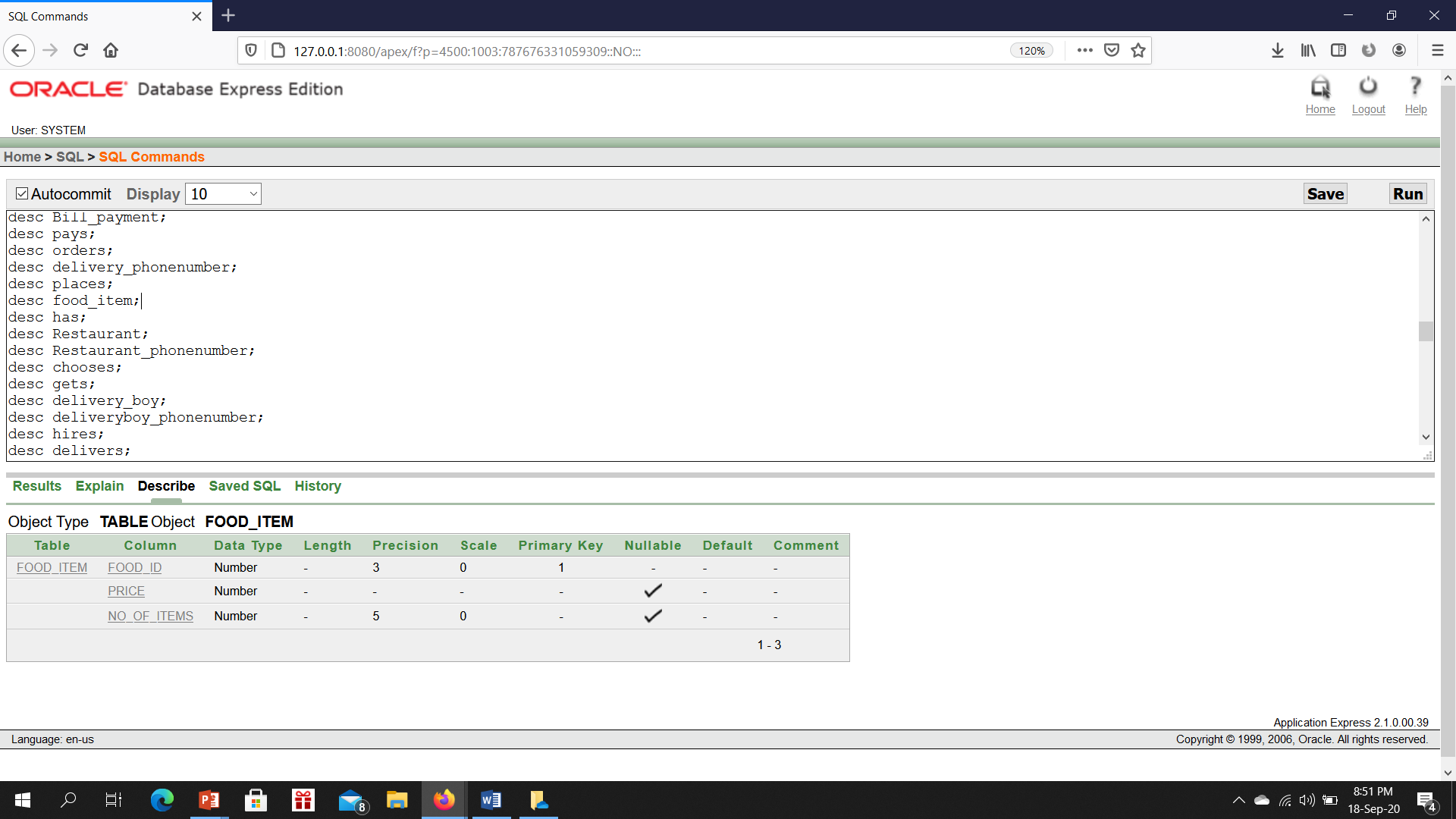
desc orders;



desc places;



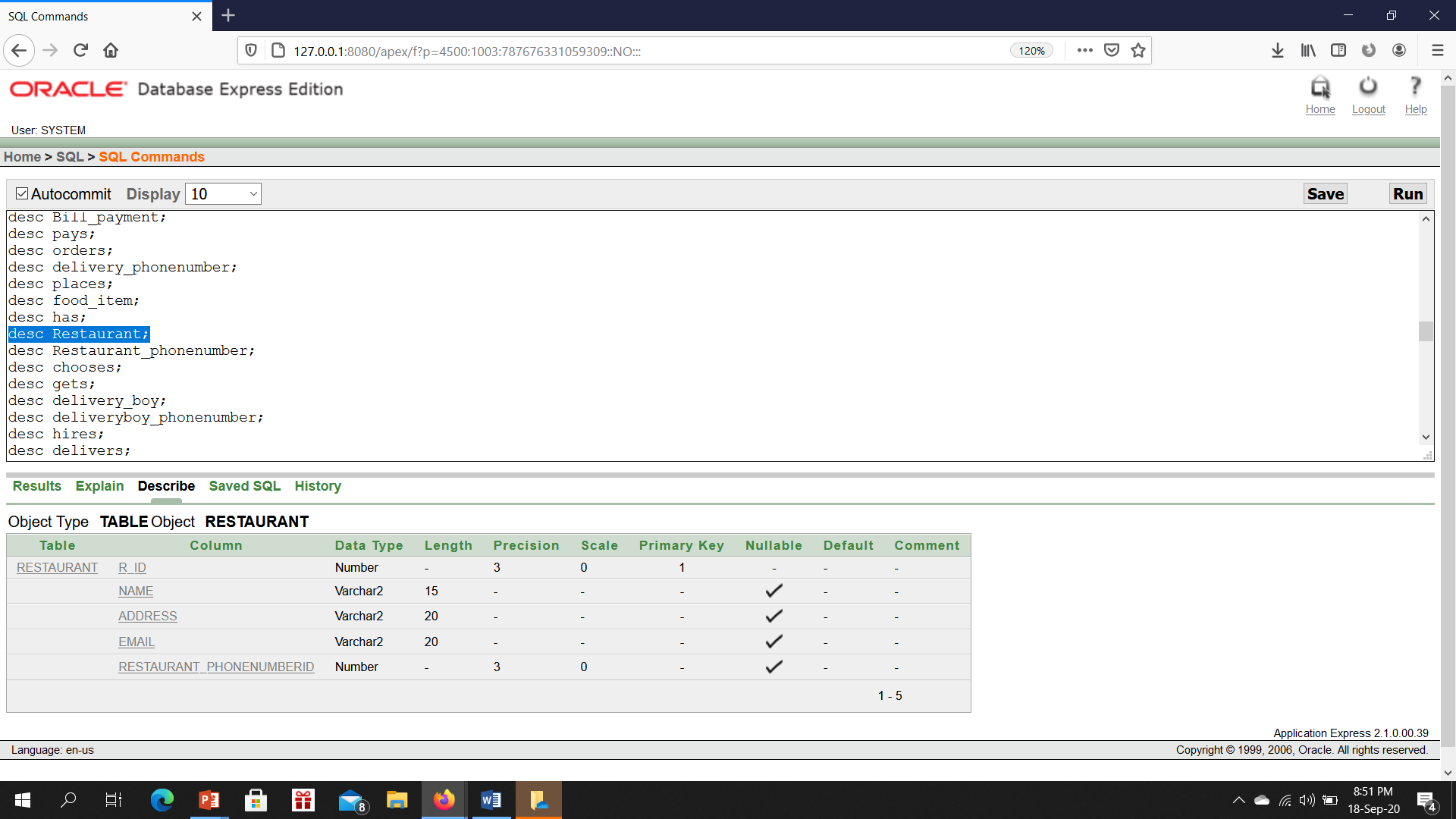
desc food\_item;



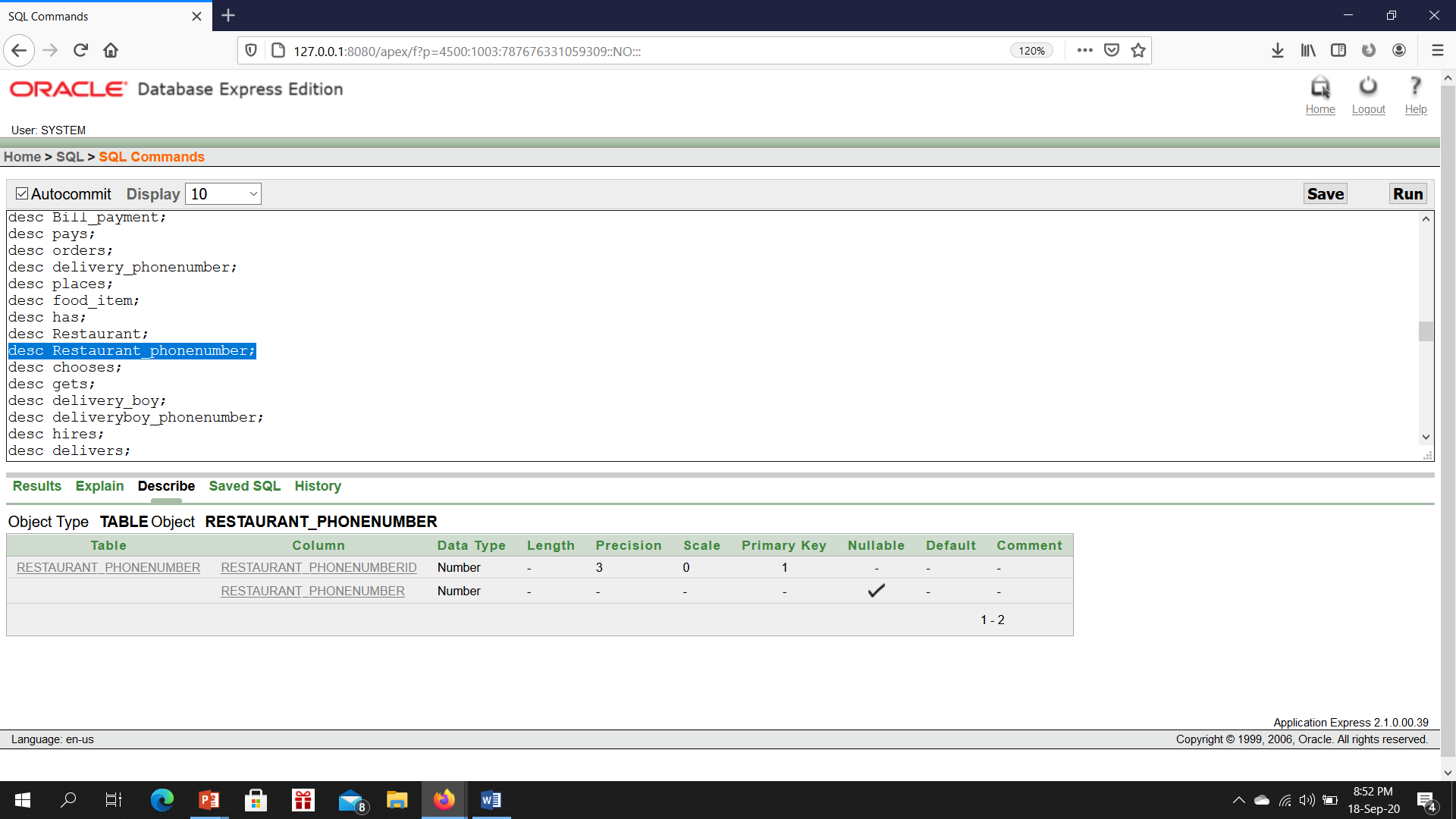
desc has;



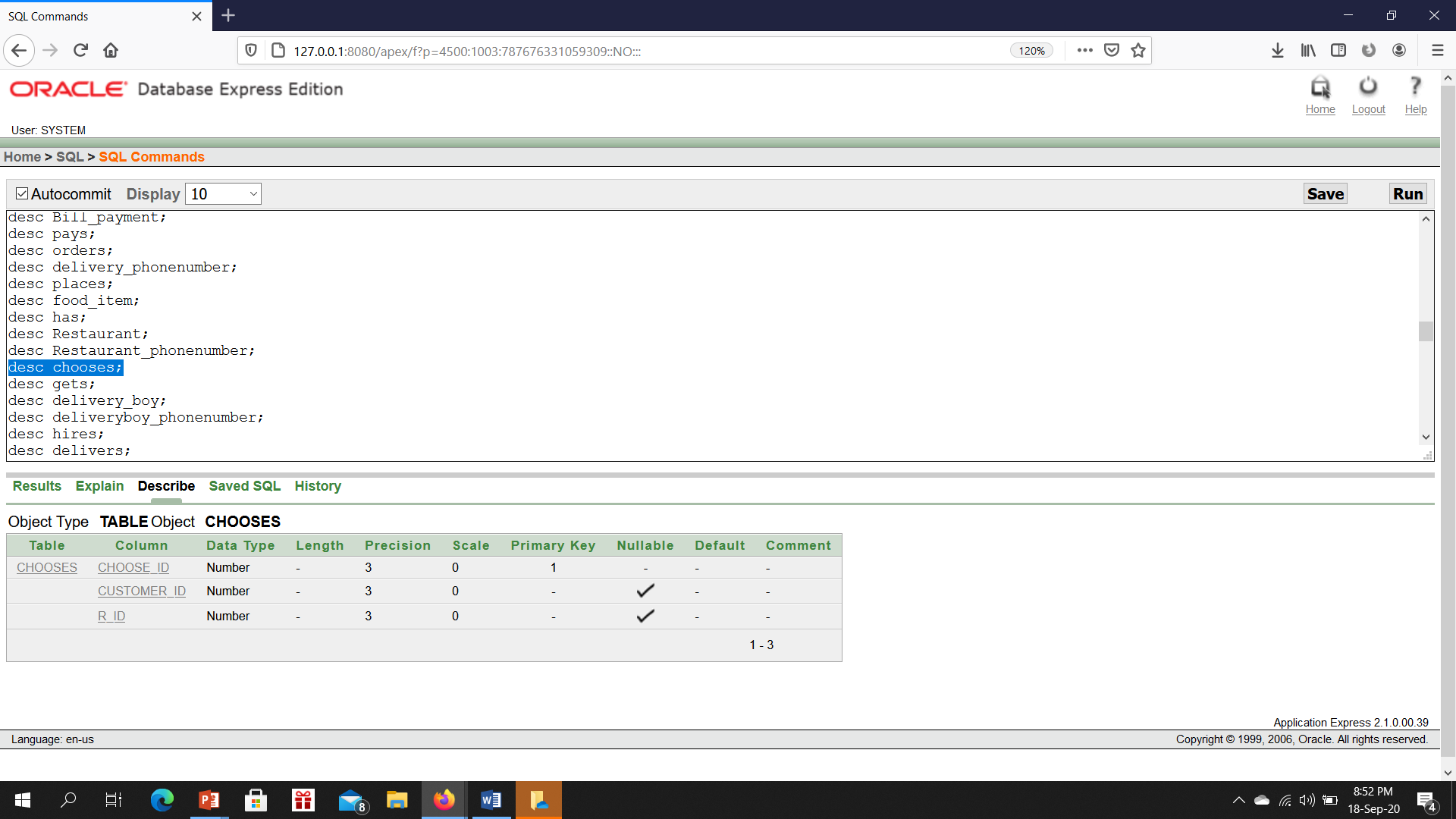
desc Restaurant;



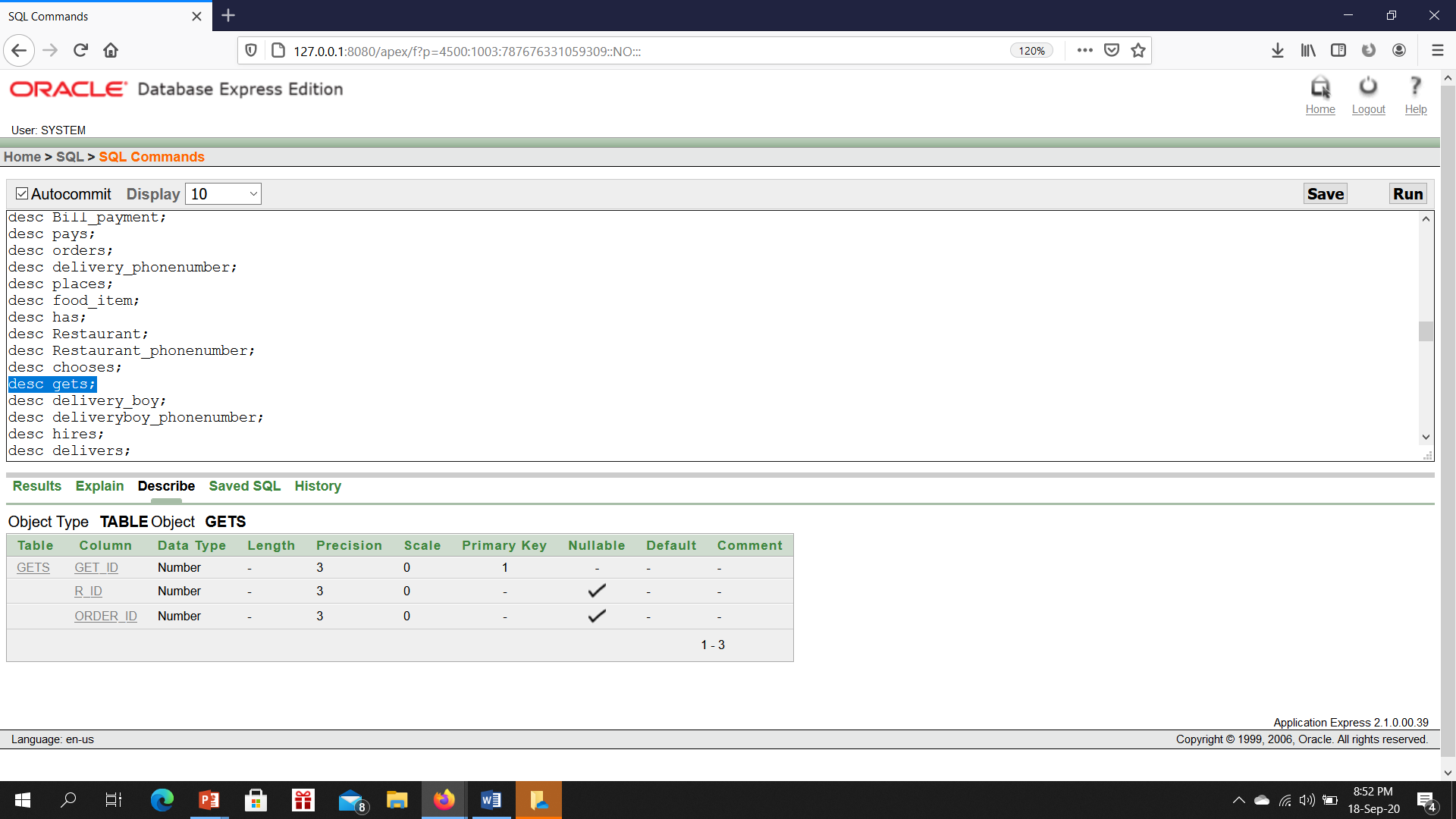
desc Restaurant\_phonenumber;



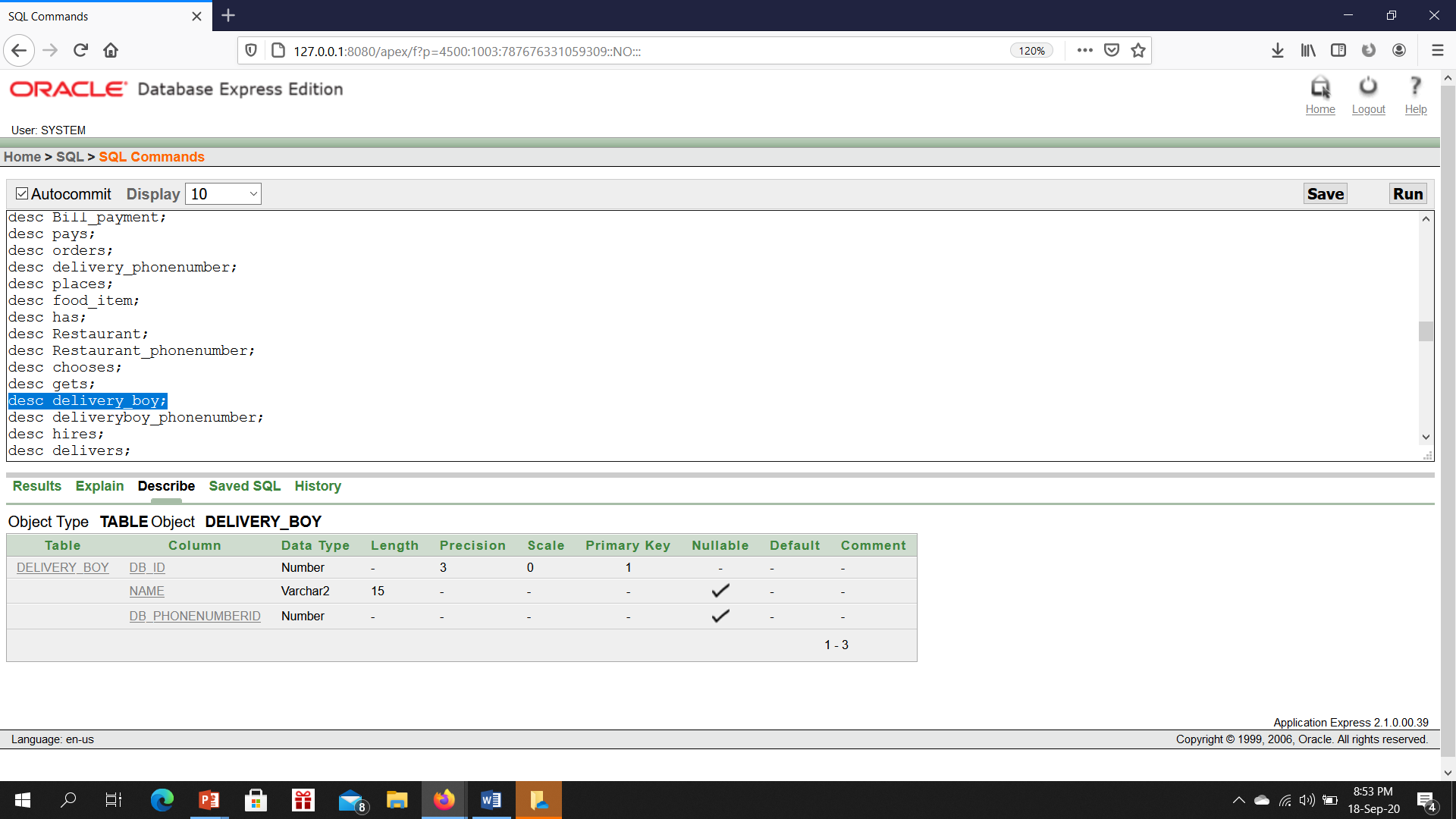
desc chooses;



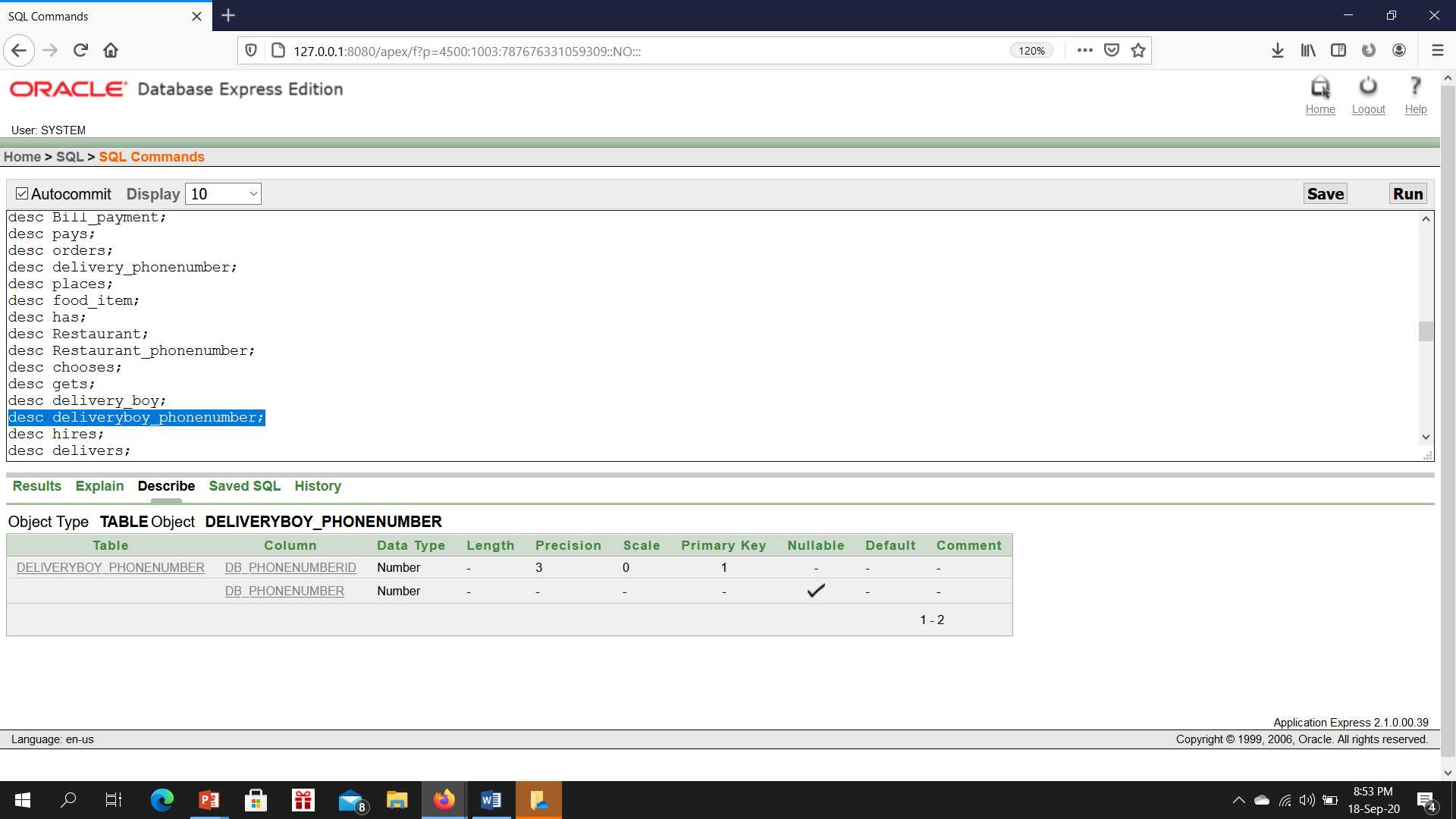
desc gets;



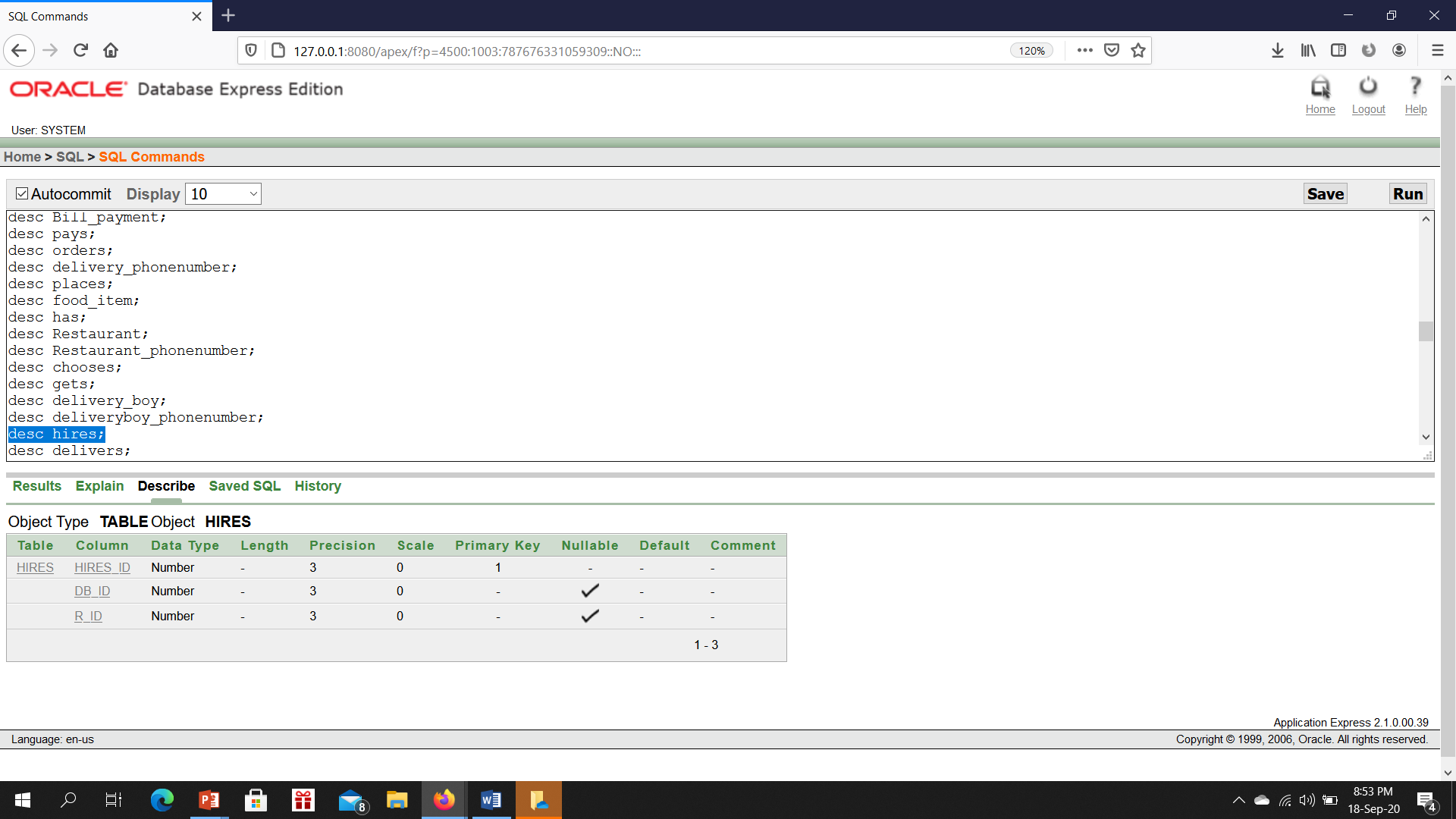
desc delivery\_boy;



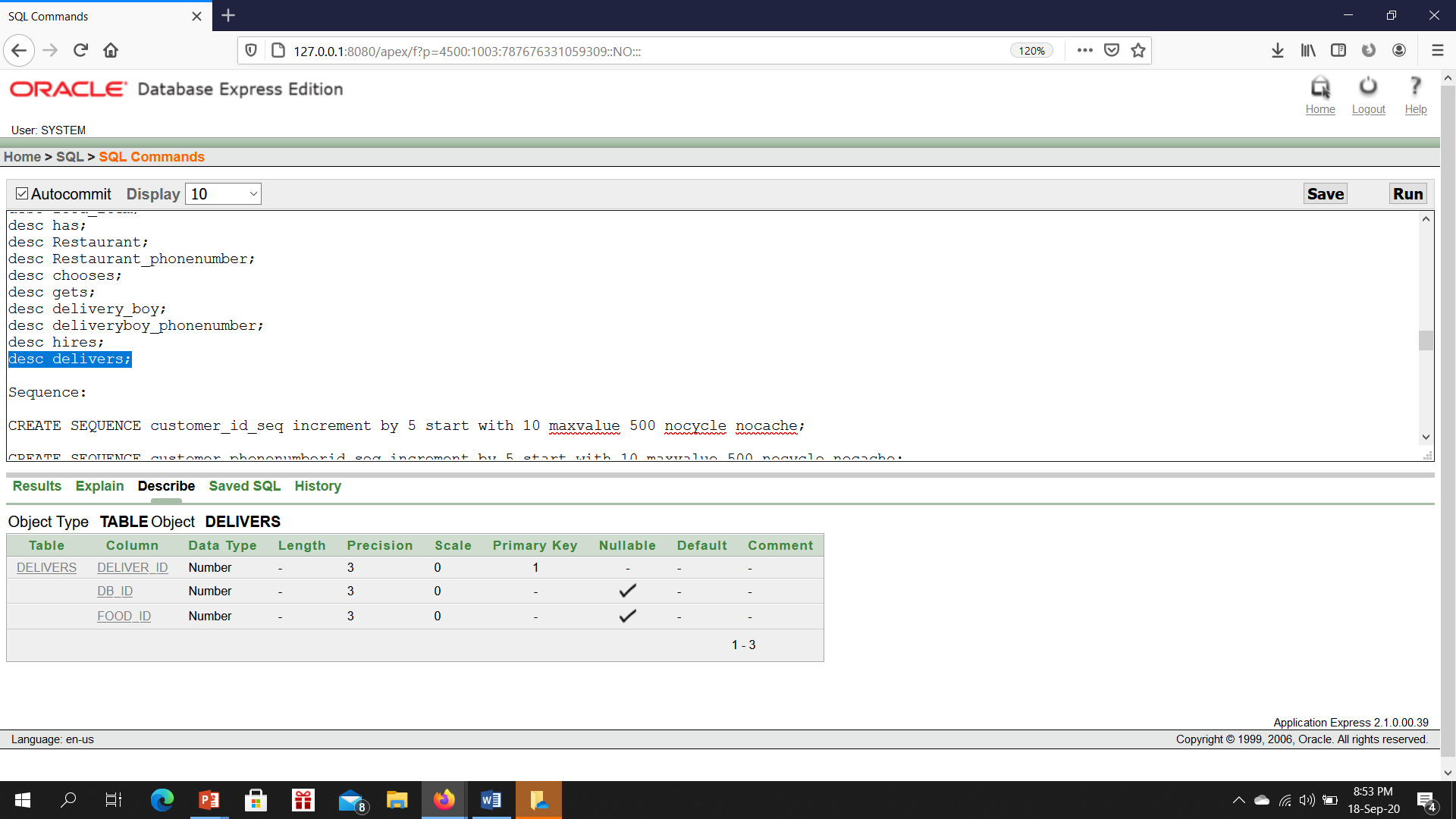
desc deliveryboy\_phonenumber;



desc hires;



desc delivers;



**Sequence:**

CREATE SEQUENCE customer\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE customer\_phonenumberid\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE bill\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE pays\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE order\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE place\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE food\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE h\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE R\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE Restaurant\_phonenumberid\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE choose\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE get\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE db\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE db\_phonenumberid\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE hires\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

CREATE SEQUENCE deliver\_id\_seq increment by 5 start with 10 maxvalue 500 nocycle nocache;

**User Access Control:**

CREATE USER applicationUser identified by gyr567tz;

CREATE ROLE Food;

GRANT CREATE TABLE,CREATE VIEW,CREATE SEQUENCE,CREATE PROCEDURE TO food;

GRANT food to applicationUser;

**DATA INSERTION:**

1.CREATE TABLE customer(customer\_id number(3)primary key, name varchar(15),email varchar(20),address varchar(20),customer\_phonenumberid number);

desc customer;

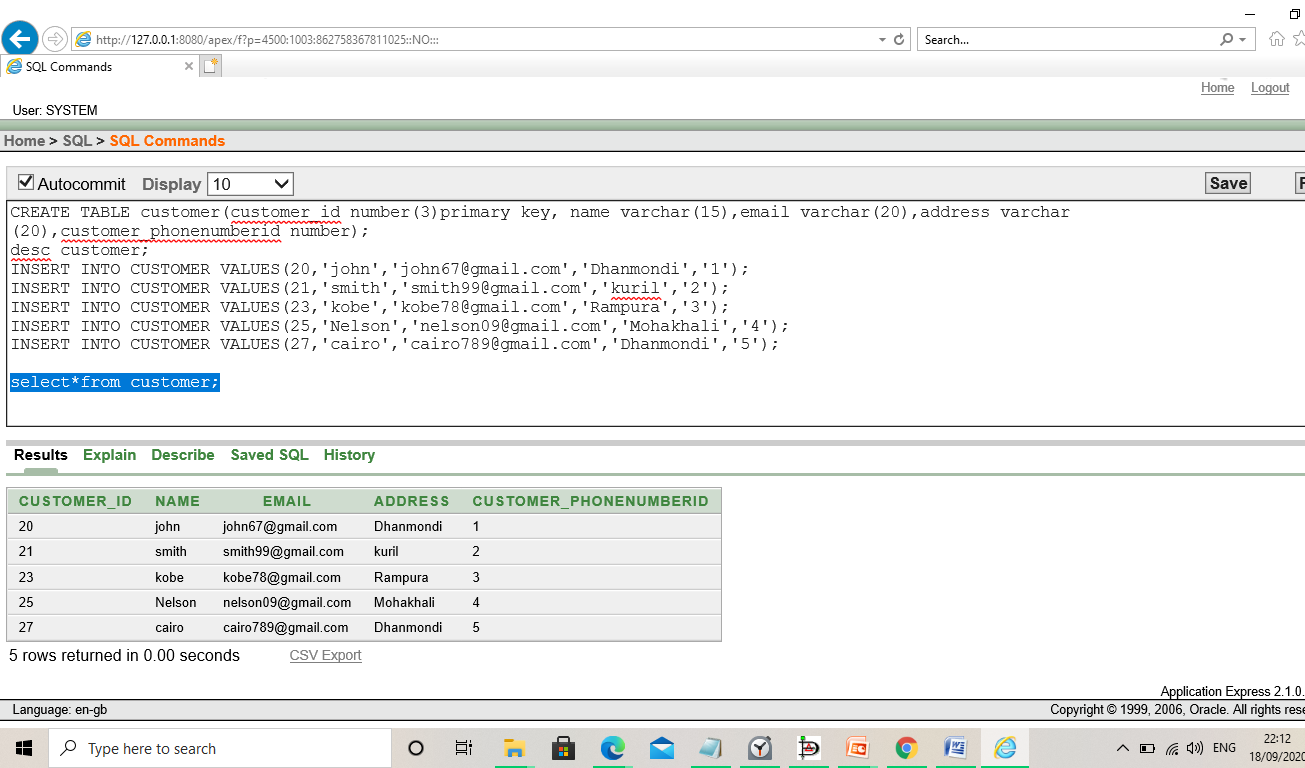
INSERT INTO CUSTOMER VALUES(20,'john','john67@gmail.com','Dhanmondi','1');

INSERT INTO CUSTOMER VALUES(21,'smith','smith99@gmail.com','kuril','2');

INSERT INTO CUSTOMER VALUES(23,'kobe','kobe78@gmail.com','Rampura','3');

INSERT INTO CUSTOMER VALUES(25,'Nelson','nelson09@gmail.com','Mohakhali','4');

INSERT INTO CUSTOMER VALUES(27,'cairo','cairo789@gmail.com','Dhanmondi','5');



2. CREATE TABLE customer\_phonenumber(customer\_phonenumberid number(3)primary key,customer\_phonenumber number);

DESC customer\_phonenumber;

INSERT INTO CUSTOMER\_PHONENUMBER VALUES(1,01992347689);

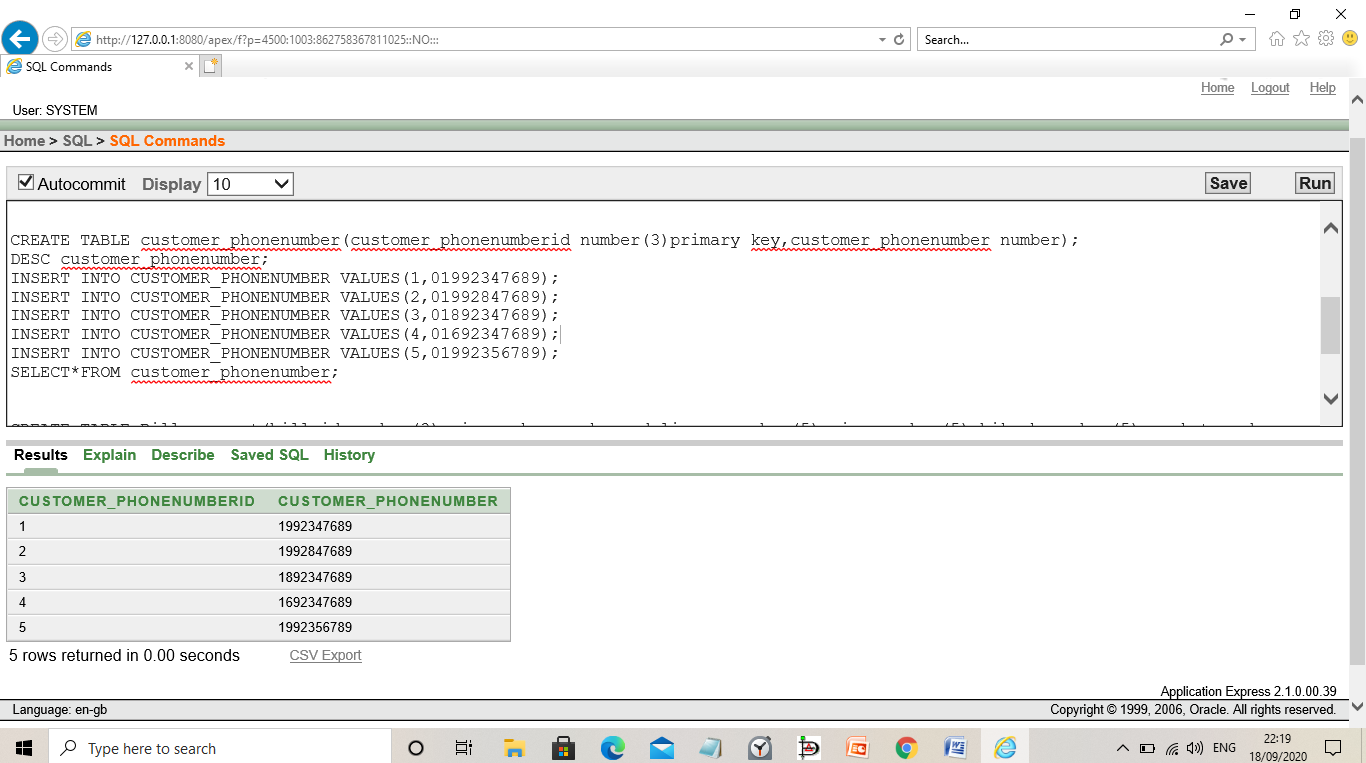
INSERT INTO CUSTOMER\_PHONENUMBER VALUES(2,01992847689);

INSERT INTO CUSTOMER\_PHONENUMBER VALUES(3,01892347689);

INSERT INTO CUSTOMER\_PHONENUMBER VALUES(4, 01692347689);

INSERT INTO CUSTOMER\_PHONENUMBER VALUES(5,01992356789);

SELECT\*FROM customer\_phonenumber;



3. CREATE TABLE Bill\_payment(bill\_id number(3)primary key,cash\_on\_delivery number(5),visa number(5),bikash number(5),rocket number(5));

DESC BILL\_PAYMENT;

INSERT INTO BILL\_PAYMENT VALUES(12,00,00,9234,00);

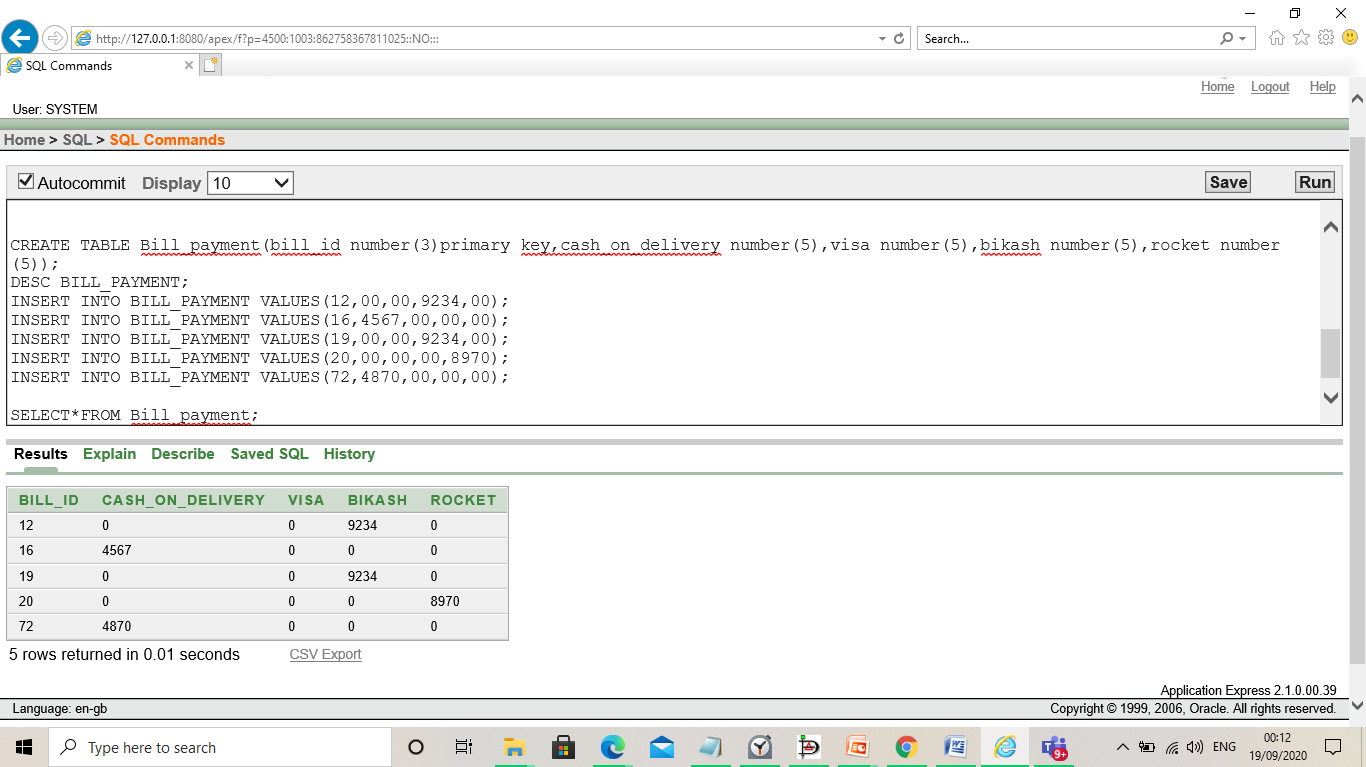
INSERT INTO BILL\_PAYMENT VALUES(16,4567,00,00,00);

INSERT INTO BILL\_PAYMENT VALUES(19,00,00,9234,00);

INSERT INTO BILL\_PAYMENT VALUES(20,00,00,00,8970);

INSERT INTO BILL\_PAYMENT VALUES(72,4870,00,00,00);

SELECT\*FROM Bill\_payment;



4CREATE TABLE pays( pays\_id number(3)primary key,customer\_id number(3),bill\_id number(3));

ALTER TABLE pays add constraint Fok2 foreign key(customer\_id) references customer(customer\_id);

ALTER TABLE pays add constraint Fok3 foreign key(bill\_id) references Bill\_payment(bill\_id);

DESC PAYS;

DROP TABLE PAYS;

INSERT INTO PAYS VALUES(101,20,12);

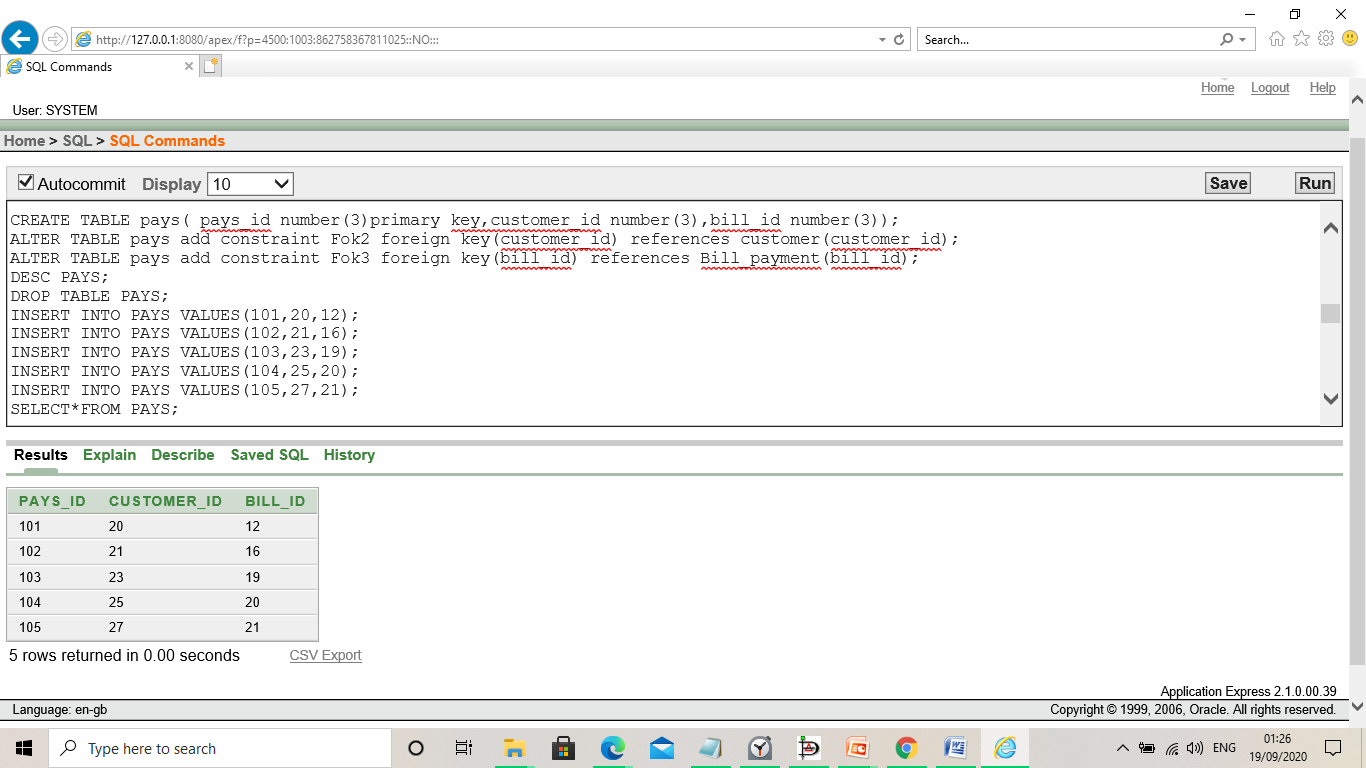
INSERT INTO PAYS VALUES(102,21,16);

INSERT INTO PAYS VALUES(103,23,19);

INSERT INTO PAYS VALUES(104,25,20);

INSERT INTO PAYS VALUES(105,27,21);

SELECT\*FROM PAYS;.



5. CREATE TABLE orders(order\_id number(3)primary key,no\_of\_item number(3),total\_bill number(5));

DESC ORDERS;

INSERT INTO ORDERS VALUES(65,3,678);

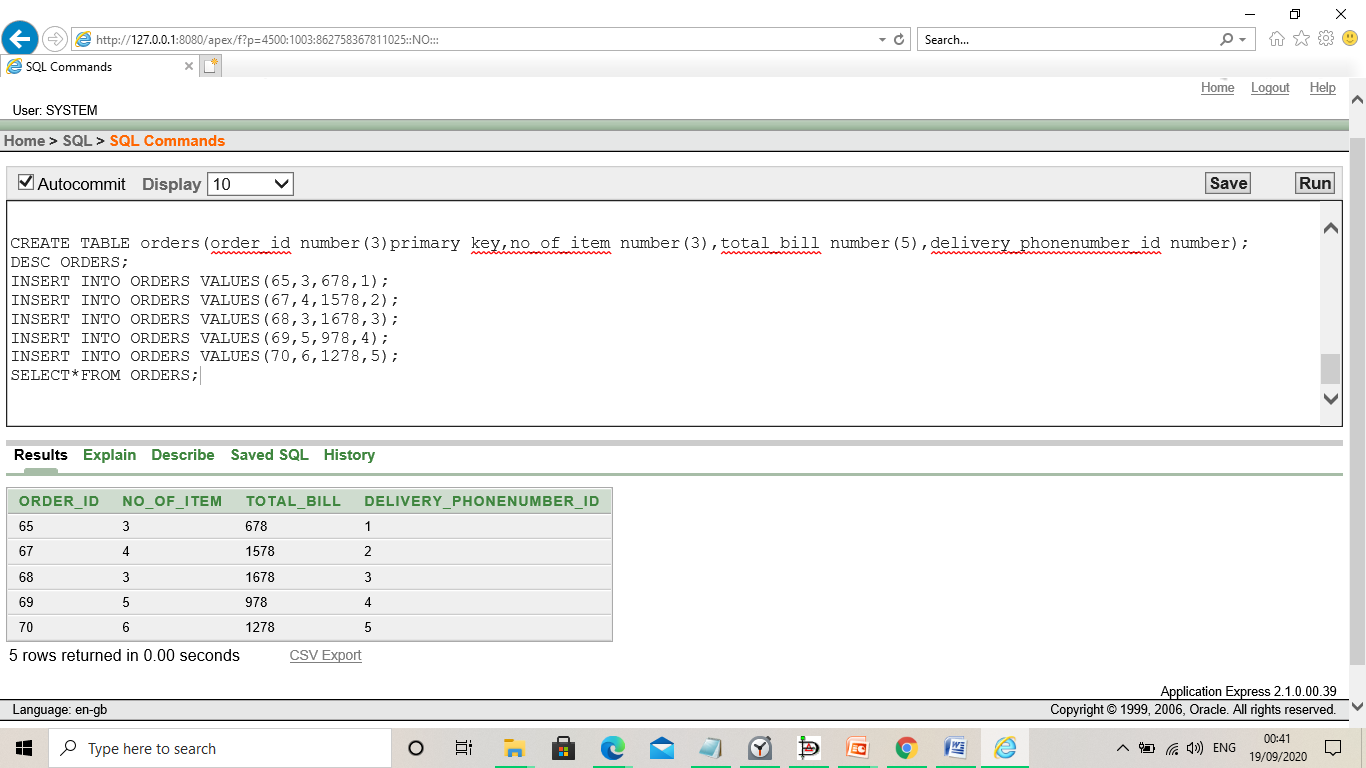
INSERT INTO ORDERS VALUES(67,4,1578);

INSERT INTO ORDERS VALUES(68,3,1678);

INSERT INTO ORDERS VALUES(69,5,978);

INSERT INTO ORDERS VALUES(70,6,1278);

SELECT\*FROM ORDERS;



6. CREATE TABLE places(place\_id number(3)primary key,customer\_id number(3),order\_id number(3));

ALTER TABLE places add constraint Fok5 foreign key(customer\_id) references customer(customer\_id);

ALTER TABLE places add constraint Fok6 foreign key(order\_id) references orders(order\_id);

DESC PLACES;

INSERT INTO PLACES VALUES(304,20,65);

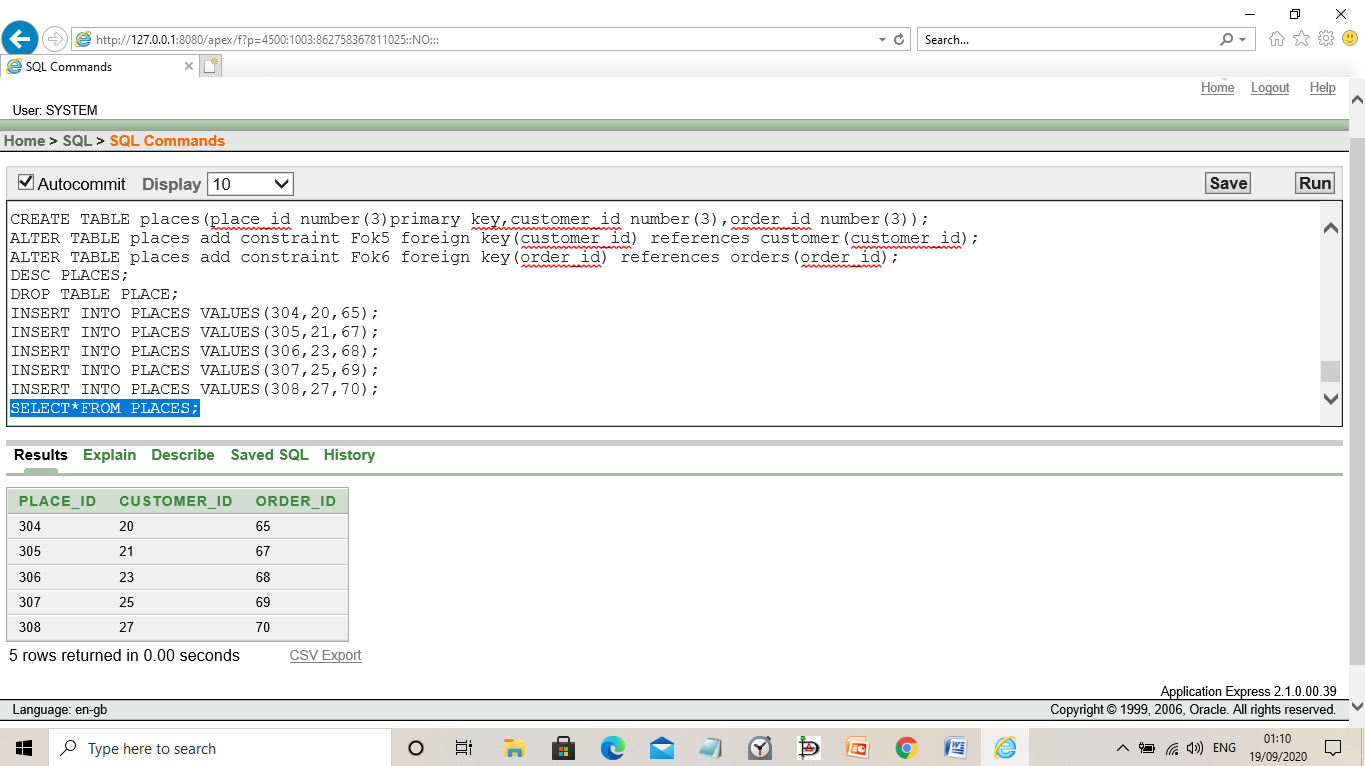
INSERT INTO PLACES VALUES(305,21,67);

INSERT INTO PLACES VALUES(306,23,68);

INSERT INTO PLACES VALUES(307,25,69);

INSERT INTO PLACES VALUES(308,27,70);

SELECT\*FROM PLACES;



7. CREATE TABLE food\_item(food\_id number(3) primary key, price number,no\_of\_items number(5));

DESC FOOD\_ITEM;

INSERT INTO FOOD\_ITEM VALUES(94,345,3);

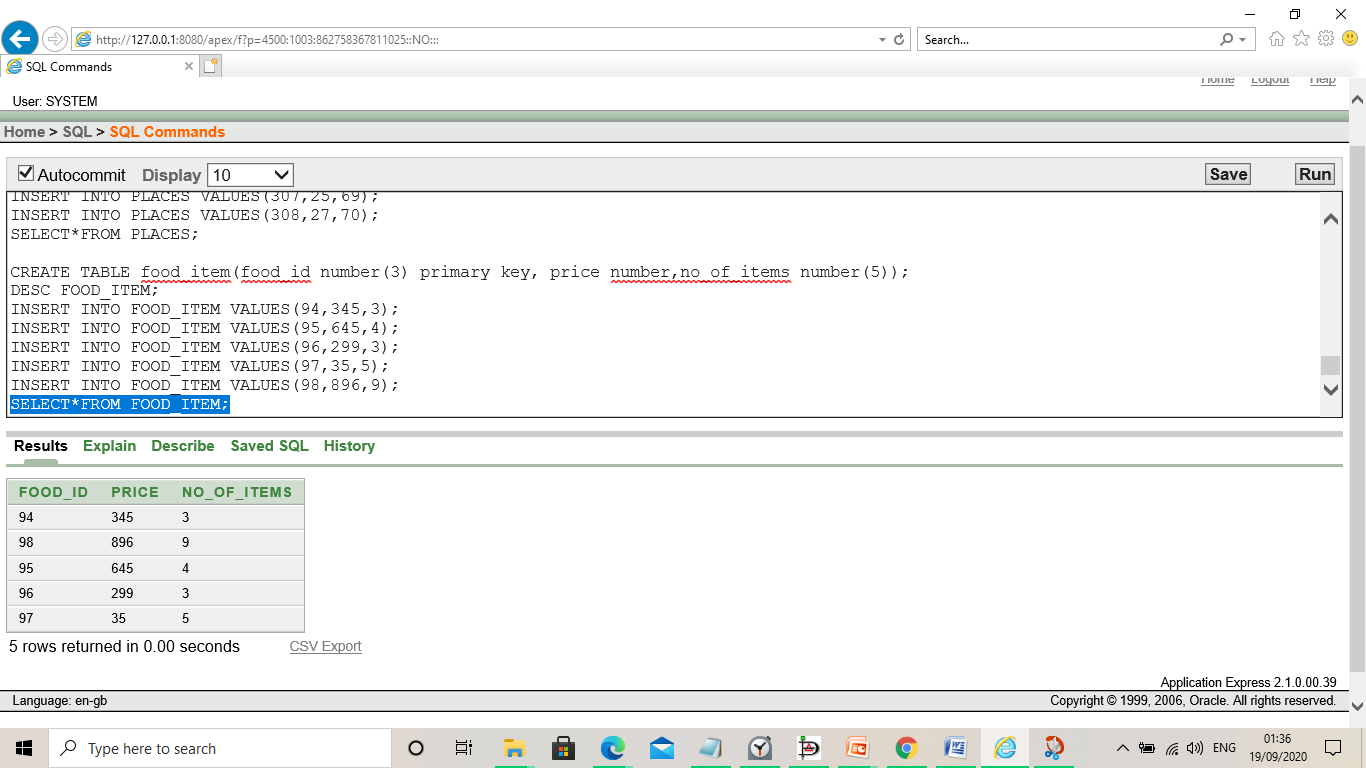
INSERT INTO FOOD\_ITEM VALUES(95,645,4);

INSERT INTO FOOD\_ITEM VALUES(96,299,3);

INSERT INTO FOOD\_ITEM VALUES(97,35,5);

INSERT INTO FOOD\_ITEM VALUES(98,896,9);

SELECT\*FROM FOOD\_ITEM;



8. CREATE TABLE has(h\_id number(3),order\_id number(3),food\_id number(3));

ALTER TABLE has add constraint Fok7 foreign key(order\_id) references orders(order\_id);

ALTER TABLE has add constraint Fok8 foreign key(food\_id) references food\_item(food\_id);

DESC HAS;

INSERT INTO HAS VALUES(29,65,94);

INSERT INTO HAS VALUES(30,67,95);

INSERT INTO HAS VALUES(31,68,96);

INSERT INTO HAS VALUES(32,69,97);

INSERT INTO HAS VALUES(33,70,98);

SELECT\*FROM HAS;



9. CREATE TABLE Restaurant(R\_id number(3)primary key,name varchar(15),address varchar(20),email varchar(20),Restaurant\_phonenumberid number(3));

ALTER TABLE Restaurant add constraint Fok9 foreign key(Restaurant\_phonenumberid) references Restaurant\_phonenumber(Restaurant\_phonenumberid);

INSERT INTO Restaurant VALUES(223,'OLIVER','KHILGAON','oliver99@gmail.com',311);

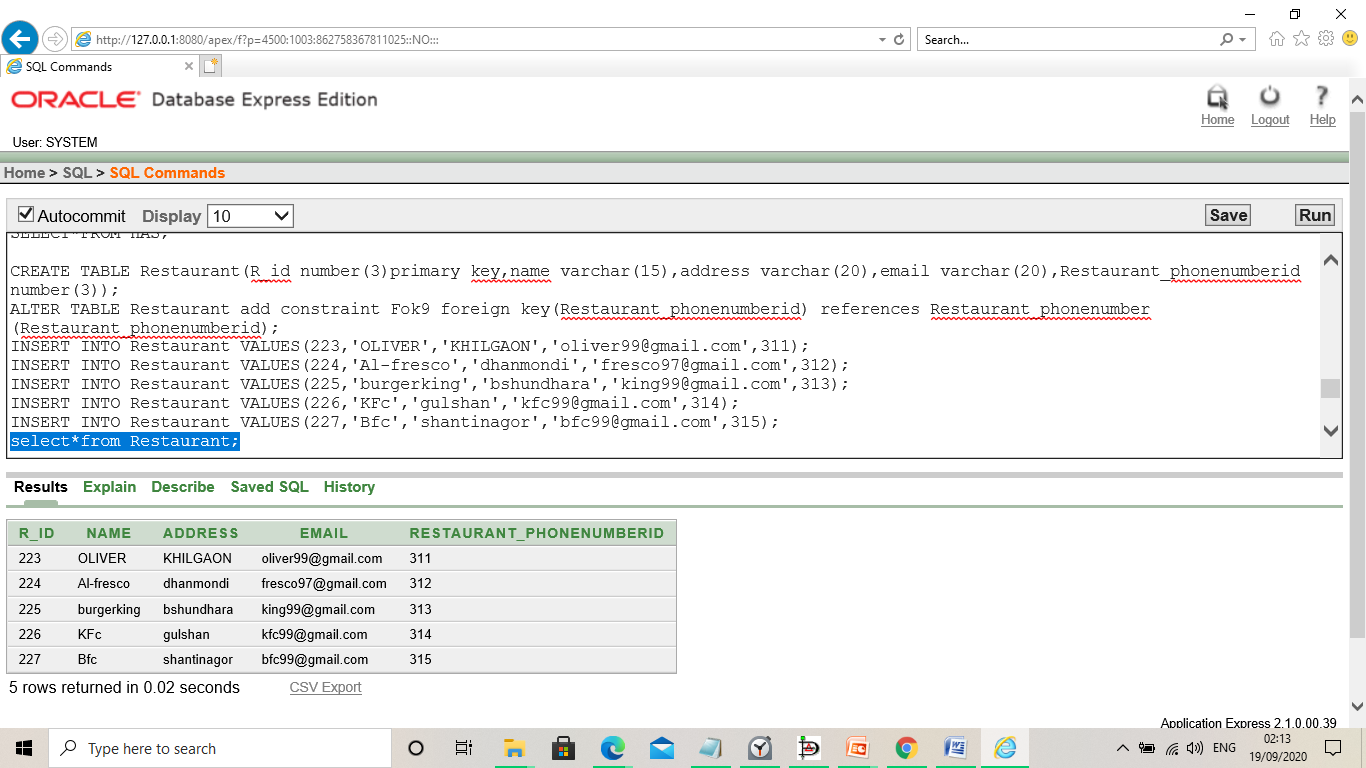
INSERT INTO Restaurant VALUES(224,'Al-fresco','dhanmondi','fresco97@gmail.com',312);

INSERT INTO Restaurant VALUES(225,'burgerking','bshundhara','king99@gmail.com',313);

INSERT INTO Restaurant VALUES(226,'KFc','gulshan','kfc99@gmail.com',314);

INSERT INTO Restaurant VALUES(227,'Bfc','shantinagor','bfc99@gmail.com',315);

select\*from Restaurant;



10. CREATE TABLE Restaurant\_phonenumber(Restaurant\_phonenumberid number(3)primary key, Restaurant\_phonenumber number);

INSERT INTO Restaurant\_phonenumber VALUES(311,01991236753);

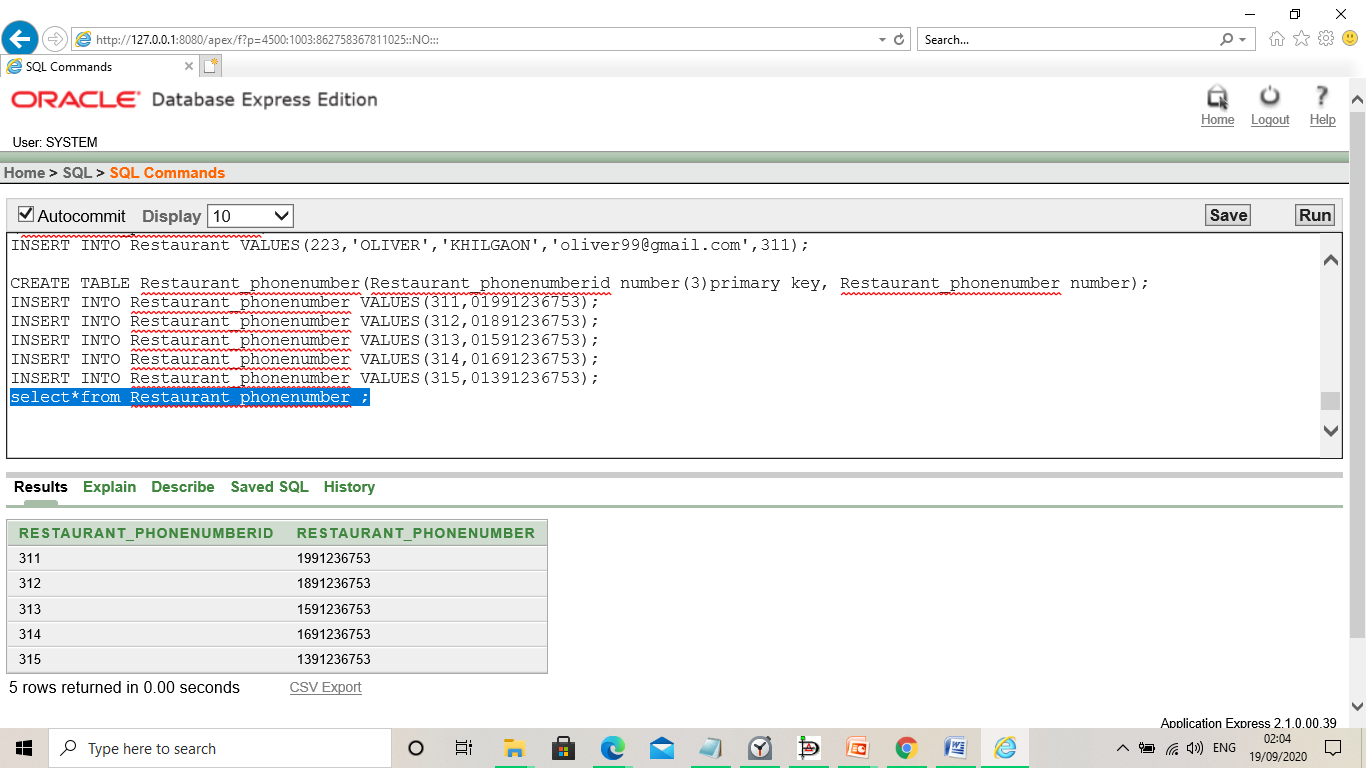
INSERT INTO Restaurant\_phonenumber VALUES(312,01891236753);

INSERT INTO Restaurant\_phonenumber VALUES(313,01591236753);

INSERT INTO Restaurant\_phonenumber VALUES(314,01691236753);

INSERT INTO Restaurant\_phonenumber VALUES(315,01391236753);

select\*from Restaurant\_phonenumber ;



11. CREATE TABLE chooses(choose\_id number(3)primary key,customer\_id number(3),R\_id number(3));

ALTER TABLE chooses add constraint Fok10 foreign key(customer\_id) references customer(customer\_id);

ALTER TABLE chooses add constraint Fok11 foreign key(R\_id) references Restaurant(R\_id);

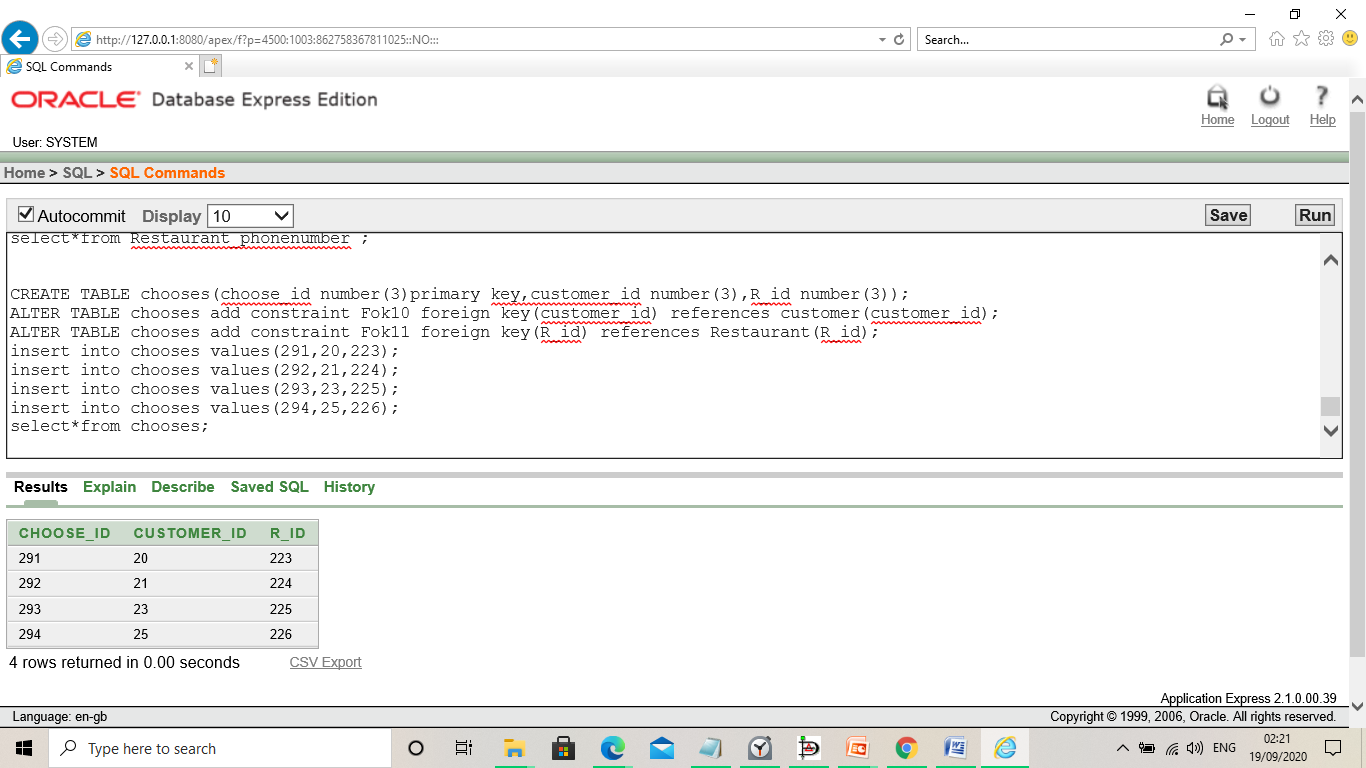
insert into chooses values(291,20,223);

insert into chooses values(292,21,224);

insert into chooses values(293,23,225);

insert into chooses values(294,25,226);

select\*from chooses;



12. CREATE TABLE gets(get\_id number(3)primary key,R\_id number(3), order\_id number(3));

ALTER TABLE gets add constraint Fok12 foreign key(R\_id) references Restaurant(R\_id);

ALTER TABLE gets add constraint Fok13 foreign key(order\_id) references orders(order\_id);

insert into gets values(401,223,65);

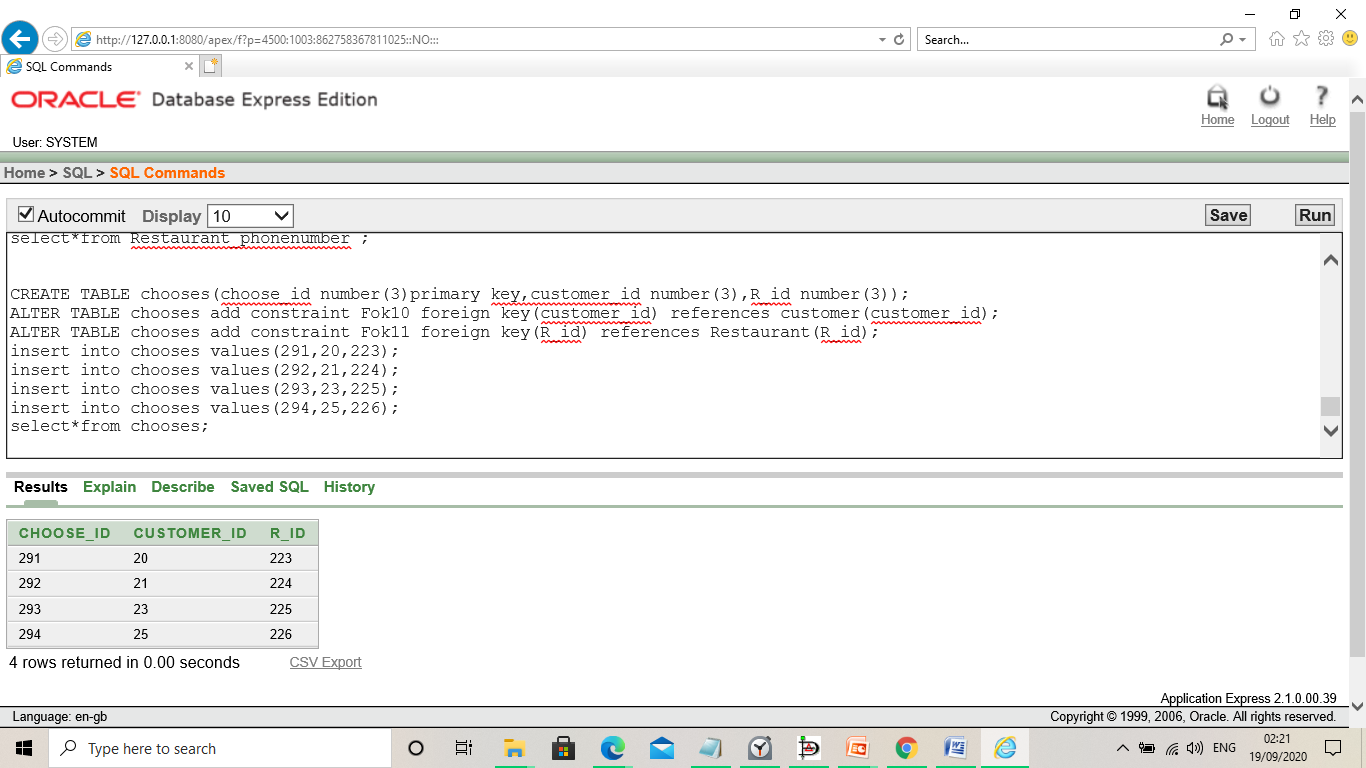
insert into gets values(402,224,67);

insert into gets values(403,224,68);

insert into gets values(404,225,69);

insert into gets values(405,226,70);

select\*from gets;



13. CREATE TABLE delivery\_boy(db\_id number(3)primary key,name varchar(15),db\_phonenumberid number);

ALTER TABLE delivery\_boy add constraint Fok14 foreign key(db\_phonenumberid) references deliveryboy\_phonenumber(db\_phonenumberid);

insert into delivery\_boy VALUES(46,'MARTIN',723);

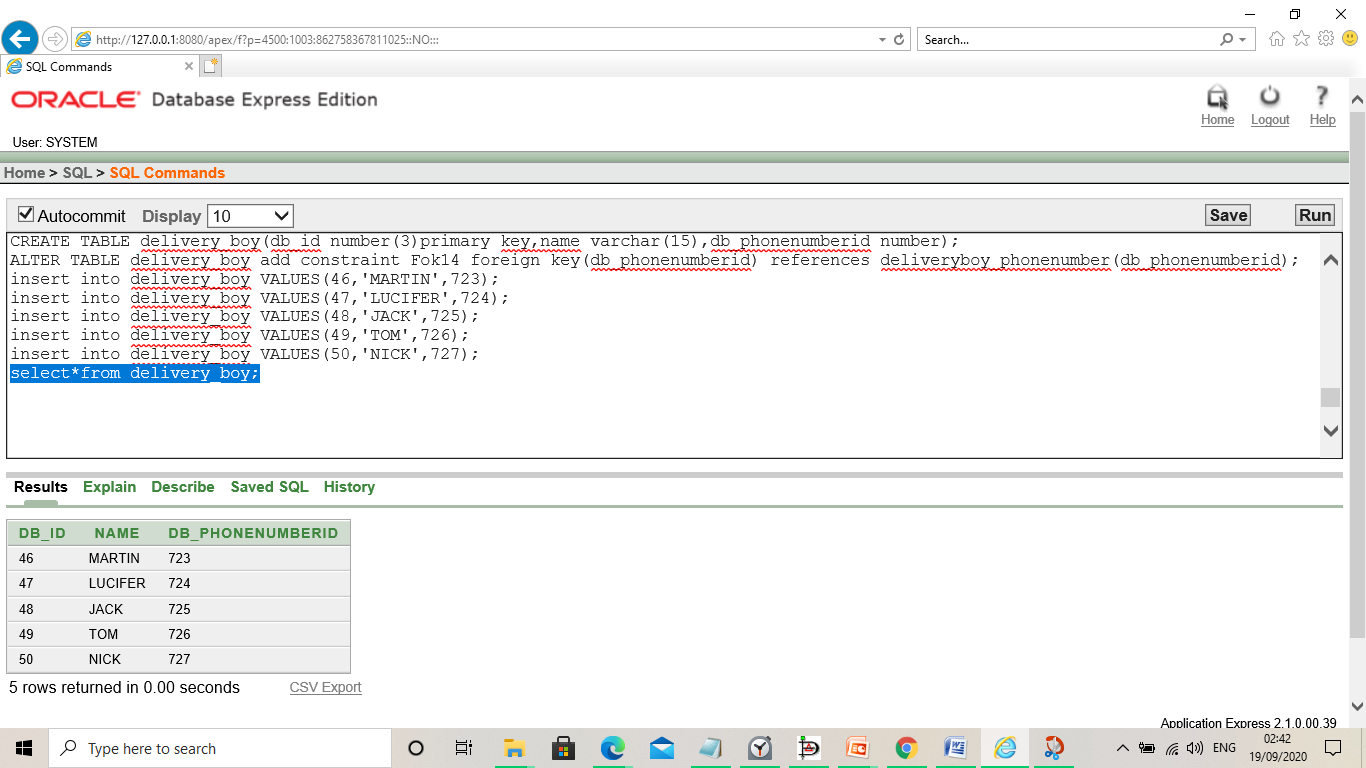
insert into delivery\_boy VALUES(47,'LUCIFER',724);

insert into delivery\_boy VALUES(48,'JACK',725);

insert into delivery\_boy VALUES(49,'TOM',726);

insert into delivery\_boy VALUES(50,'NICK',727);

select\*from delivery\_boy;



14. CREATE TABLE deliveryboy\_phonenumber(db\_phonenumberid number(3)primary key,db\_phonenumber number);

insert into deliveryboy\_phonenumber values(723,01712675436);

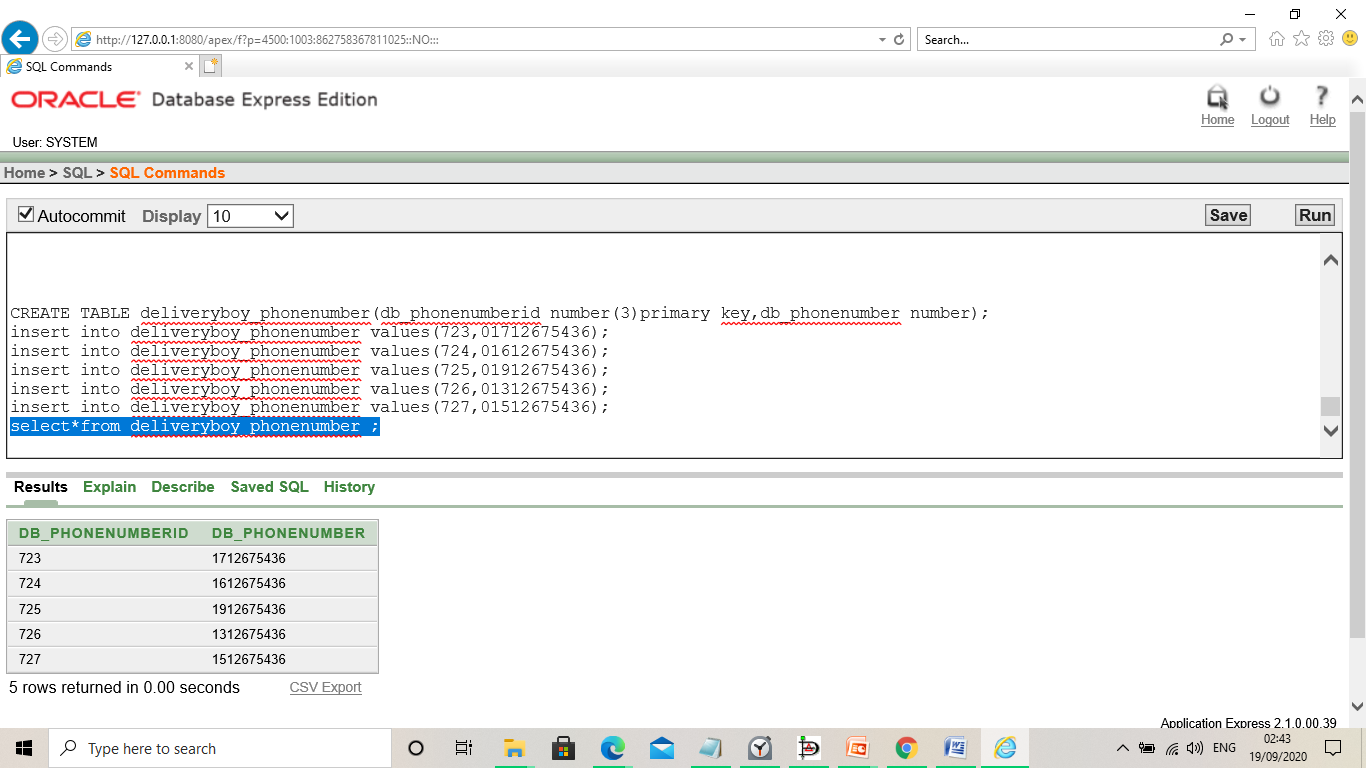
insert into deliveryboy\_phonenumber values(724,01612675436);

insert into deliveryboy\_phonenumber values(725,01912675436);

insert into deliveryboy\_phonenumber values(726,01312675436);

insert into deliveryboy\_phonenumber values(727,01512675436);

select\*from deliveryboy\_phonenumber ;



15. CREATE TABLE hires(hires\_id number(3)primary key,db\_id number(3), r\_id number(3));

ALTER TABLE hires add constraint Fok15 foreign key(db\_id) references delivery\_boy(db\_id);

ALTER TABLE hires add constraint Fok16 foreign key(R\_id) references Restaurant(R\_id);

INSERT INTO HIRES VALUES(501,46,223);

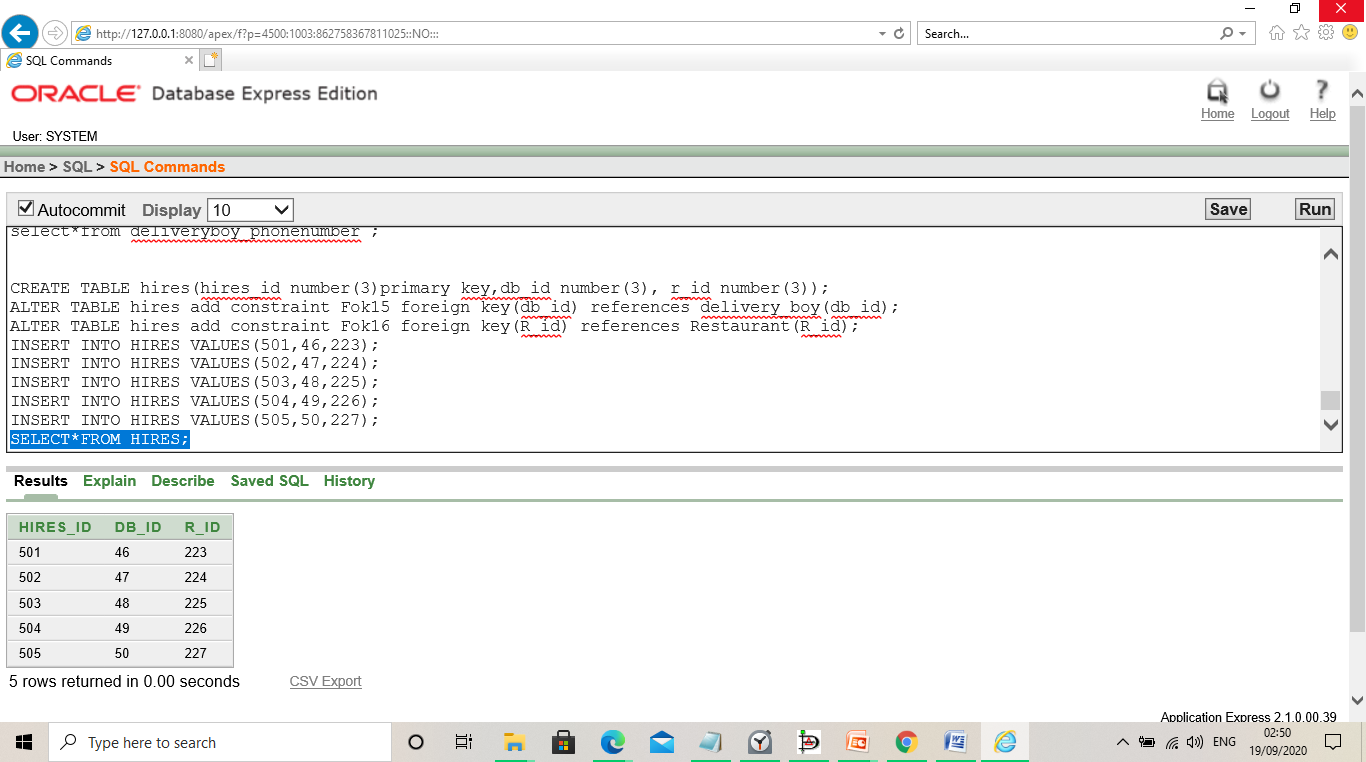
INSERT INTO HIRES VALUES(502,47,224);

INSERT INTO HIRES VALUES(503,48,225);

INSERT INTO HIRES VALUES(504,49,226);

INSERT INTO HIRES VALUES(505,50,227);

SELECT\*FROM HIRES;



16. CREATE TABLE delivers(deliver\_id number(3)primary key, db\_id number(3), food\_id number(3));

ALTER TABLE delivers add constraint Fok17 foreign key(db\_id) references delivery\_boy(db\_id);

ALTER TABLE delivers add constraint Fok18 foreign key(food\_id) references food\_item(food\_id);

INSERT INTO DELIVERS VALUES(701,46,94);

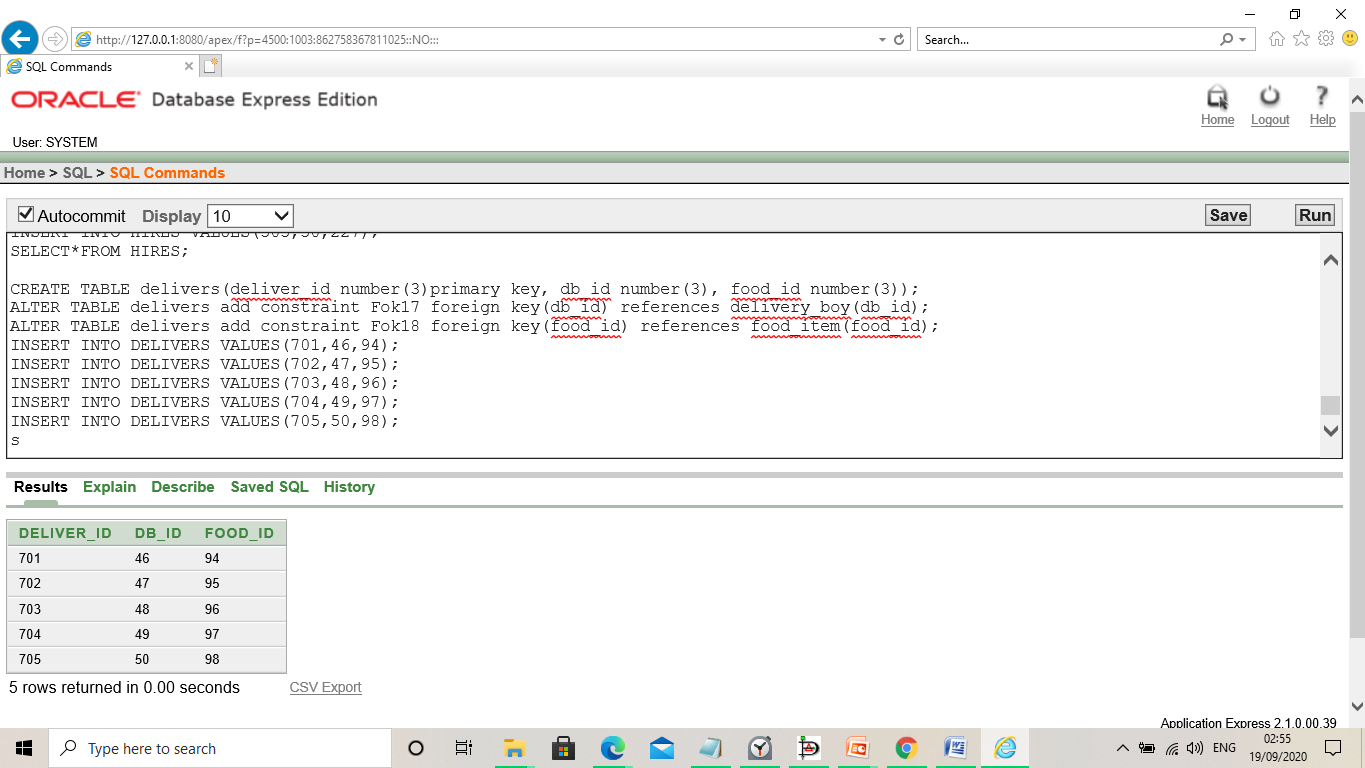
INSERT INTO DELIVERS VALUES(702,47,95);

INSERT INTO DELIVERS VALUES(703,48,96);

INSERT INTO DELIVERS VALUES(704,49,97);

INSERT INTO DELIVERS VALUES(705,50,98);

SELECT\*FROM DELIVERS;



**QUERY WRITING:**

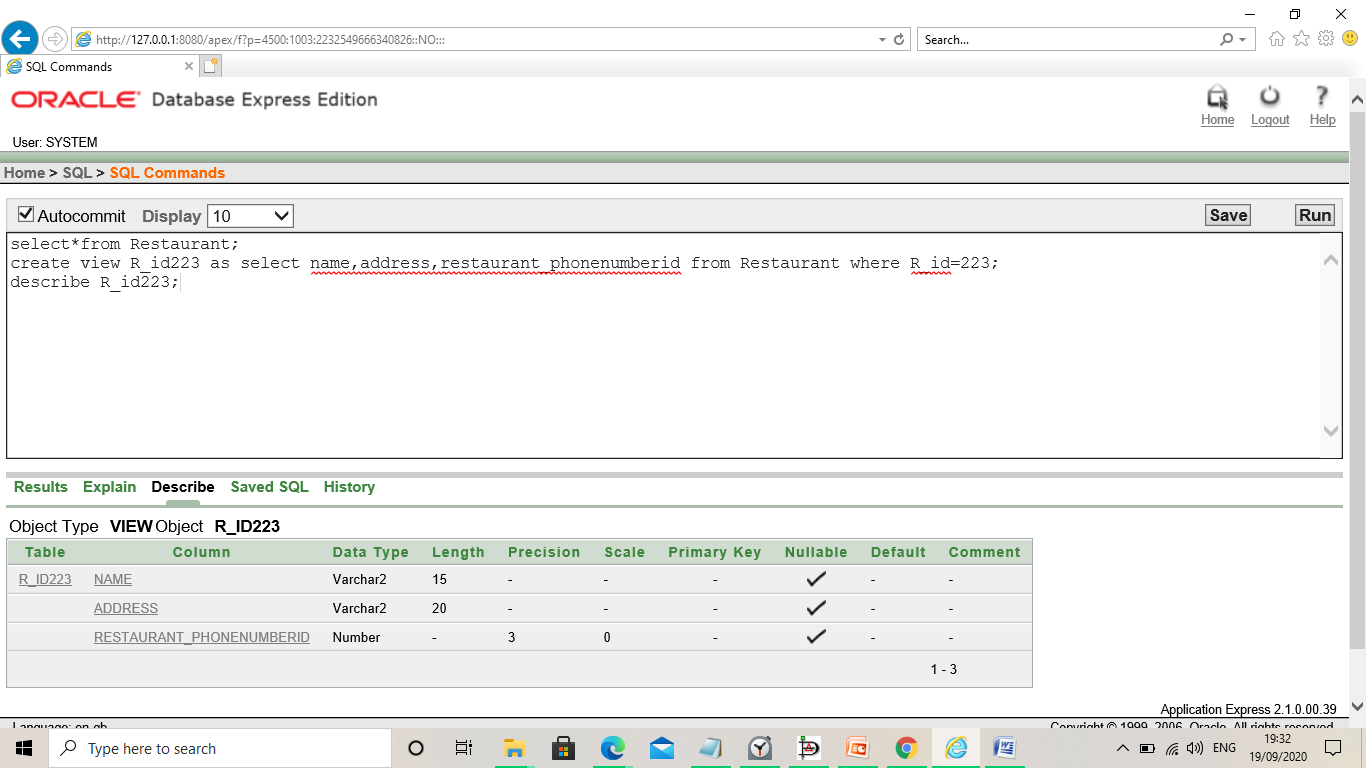
**VIEW:**

* + Create a view, R\_ID223, that contains details of RESTAURANT in R\_ID.

select\*from Restaurant;

create view R\_id223 as select name,address,restaurant\_phonenumberid from Restaurant where R\_id=223;

describe R\_id223;

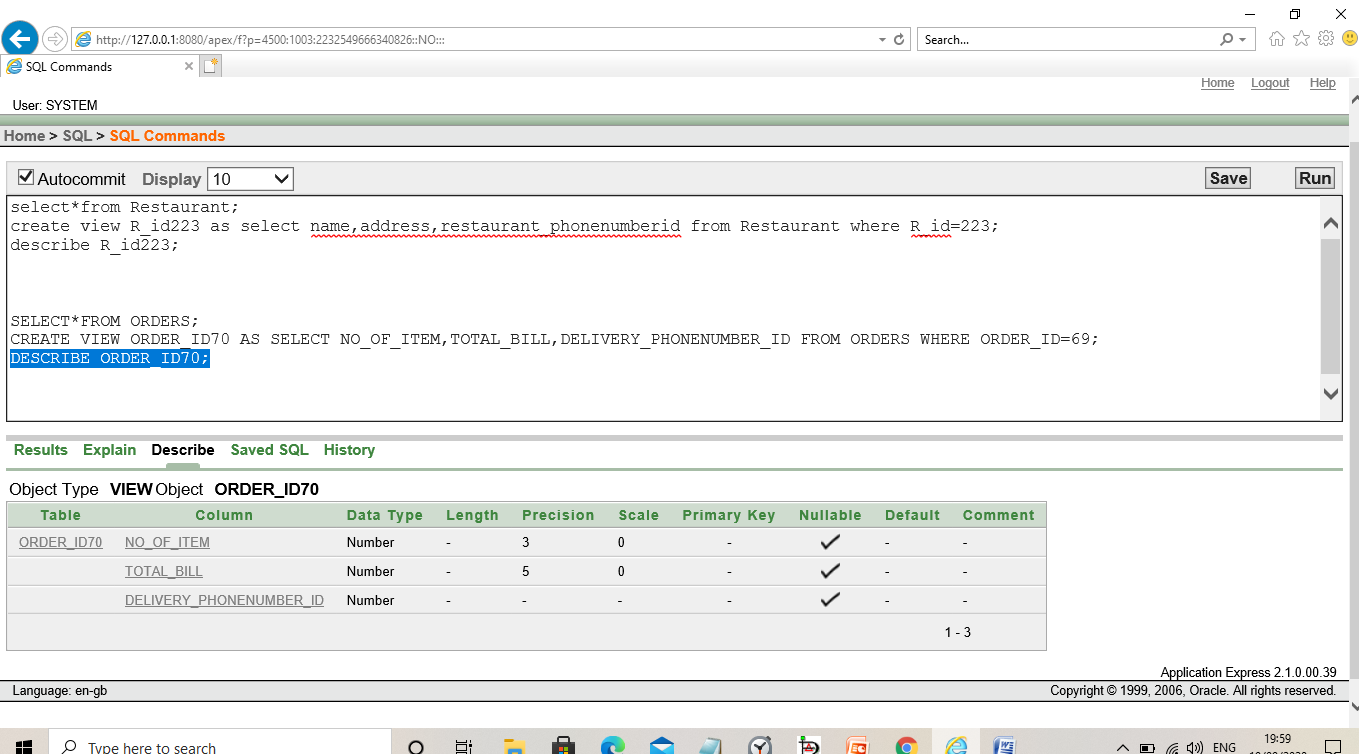


Create a view, ORDER\_ID, that contains details of ORDERS in order\_id?

SELECT\*FROM ORDERS;

CREATE VIEW ORDER\_ID70 AS SELECT NO\_OF\_ITEM,TOTAL\_BILL,DELIVERY\_PHONENUMBER\_ID FROM ORDERS WHERE ORDER\_ID=69;

DESCRIBE ORDER\_ID70;

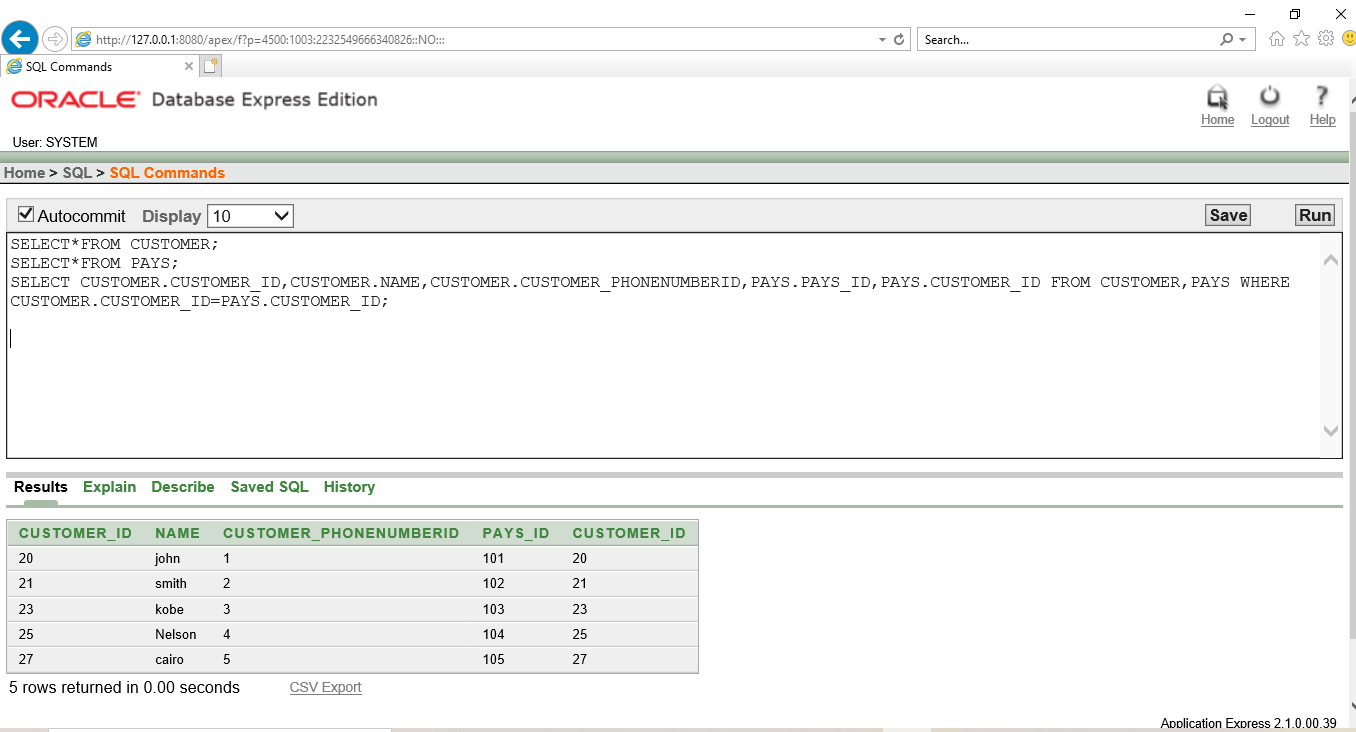


**JOINING:**

SELECT\*FROM CUSTOMER;

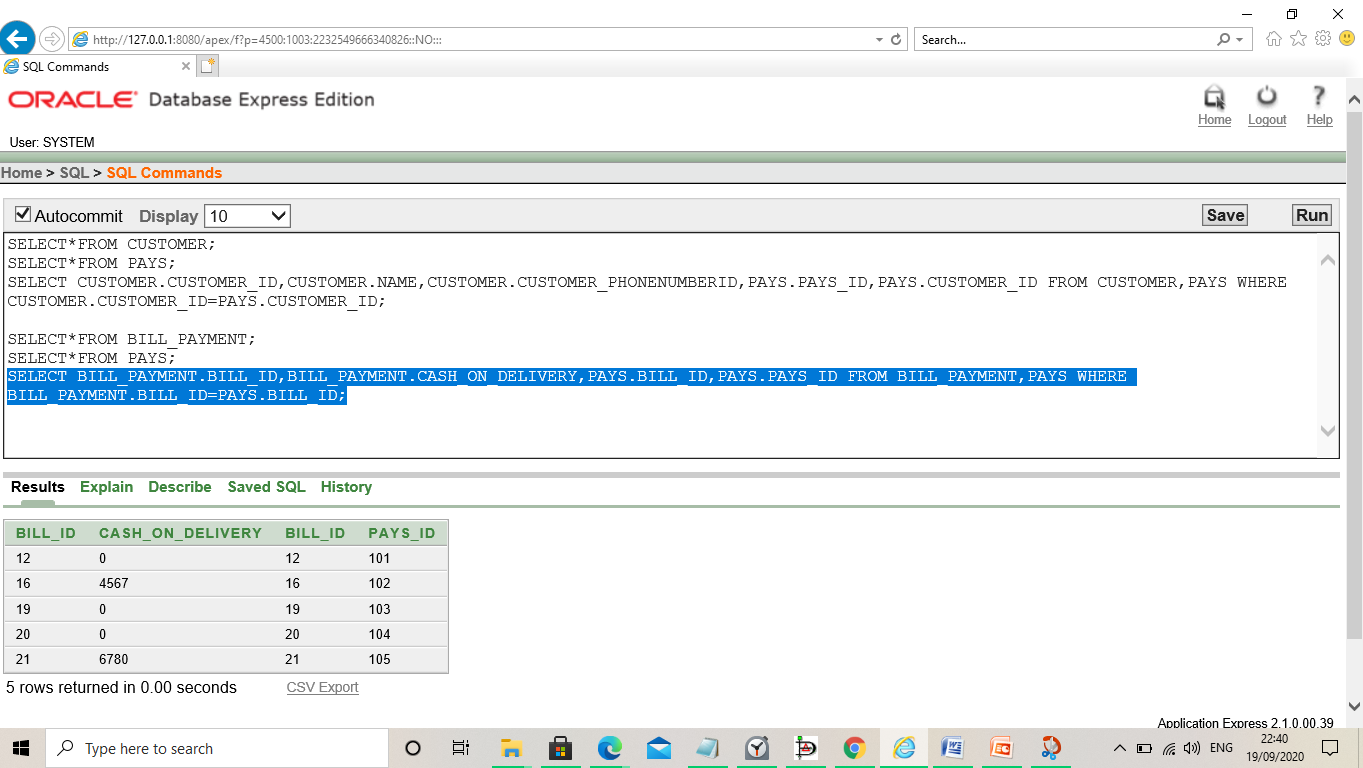
SELECT\*FROM PAYS;

SELECT CUSTOMER.CUSTOMER\_ID,CUSTOMER.NAME,CUSTOMER.CUSTOMER\_PHONENUMBERID,PAYS.PAYS\_ID,PAYS.CUSTOMER\_ID FROM CUSTOMER,PAYS WHERE CUSTOMER.CUSTOMER\_ID=PAYS.CUSTOMER\_ID;



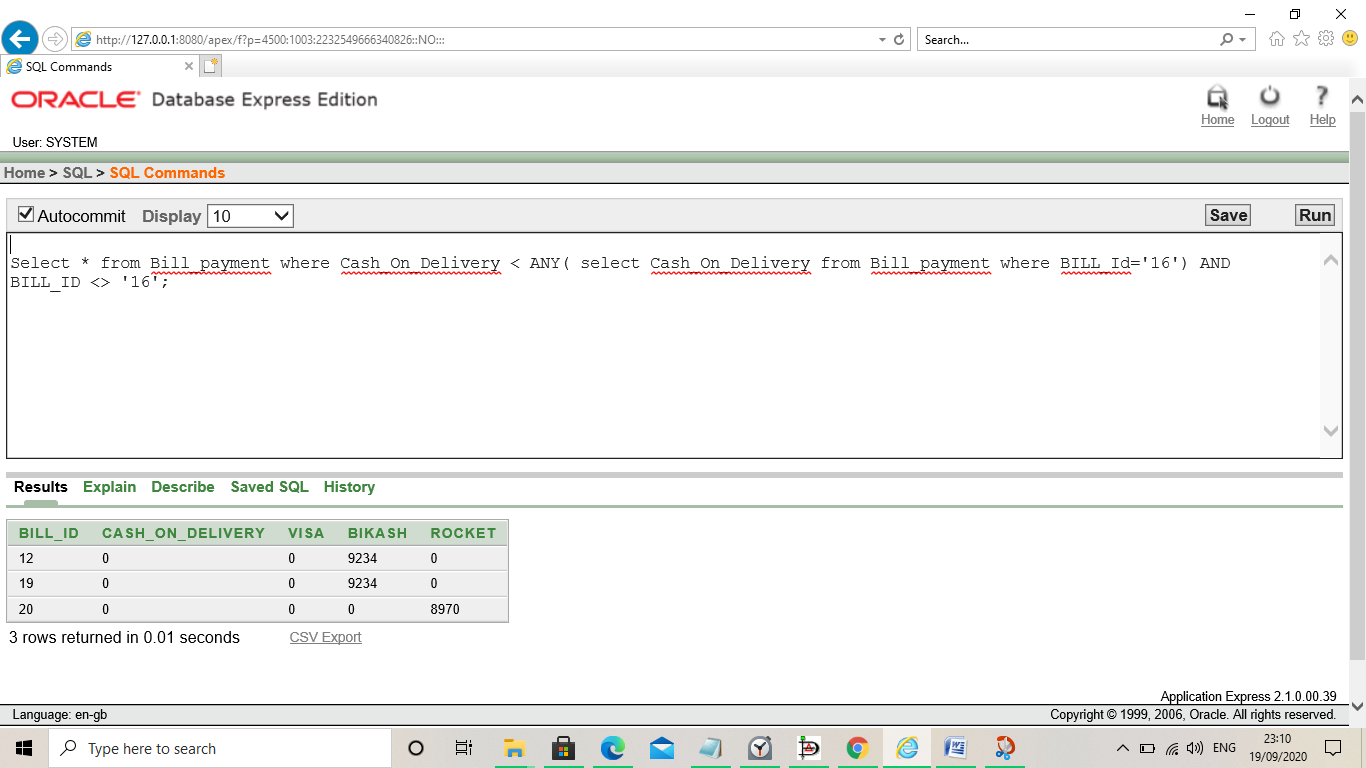
SELECT\*FROM BILL\_PAYMENT;

SELECT\*FROM PAYS;

SELECT BILL\_PAYMENT.BILL\_ID,BILL\_PAYMENT.CASH\_ON\_DELIVERY,PAYS.BILL\_ID,PAYS.PAYI D FROM BILL\_PAYMENT,PAYS WHERE BILL\_PAYMENT.BILL\_ID=PAYS.BILL\_ID;

**SUBQUERY:**

Select \* from Bill\_payment where Cash\_On\_Delivery < ANY( select Cash\_On\_Delivery from Bill\_payment where BILL\_Id='16') AND BILL\_ID <> '16';



**Relational Algebra:**

1.Find the delivery id where food id is 94?

∏*delivery\_id*(σ*food\_id* = “94” (*Delivery*))

2. Find food id and db id where delivery id is 785?

∏*db\_id,food\_id* (σ*delivery\_id*=“785” (*Delivery))*

3. Find the DB id and phone number id of Delivery boy Martin?

∏*db\_id,phone\_number* (σ*name*=“martin” (*Deliveryboy*))

4. Find Restaurant id of hire id 544?

∏*resturant\_id* (σ*hire\_id*=“544” (*Hires*))

5. Find Hire id of restaurant id 226?

∏*hire\_id* (σ*restaurant\_id*=“226” (*Hires*))

**CONCLUSION:**

Food Delivery Management System is a web based application that stimulates the foodies (customers) to put food orders through internet by locating their favorite restaurants as nearest ones.

The project gave us the opportunity to try our new skills in practice. While doing this project we also gained deeper understanding on database design. Careful planning and learning your users’ need clarifies a lot of important cornerstones.

User requirements keep changing as the system is being used. Some of the future enhancements that can be done to this system are:

* Based on the future security issues, security can be improved using emerging technologies.
* Allow to save payment details for future use.
* Send an Order Ready notification to the customer.
* Allow to process an order as a Guest.