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**AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)**

**Faculty of Engineering (CSE)**

**INTRODUCTION TO DATABASE (CSC2108)**

**Fall 2022-2023**

**Section: O**

**ICE CREAM SHOP MANAGEMENT SYSTEM**

**Supervised By:**

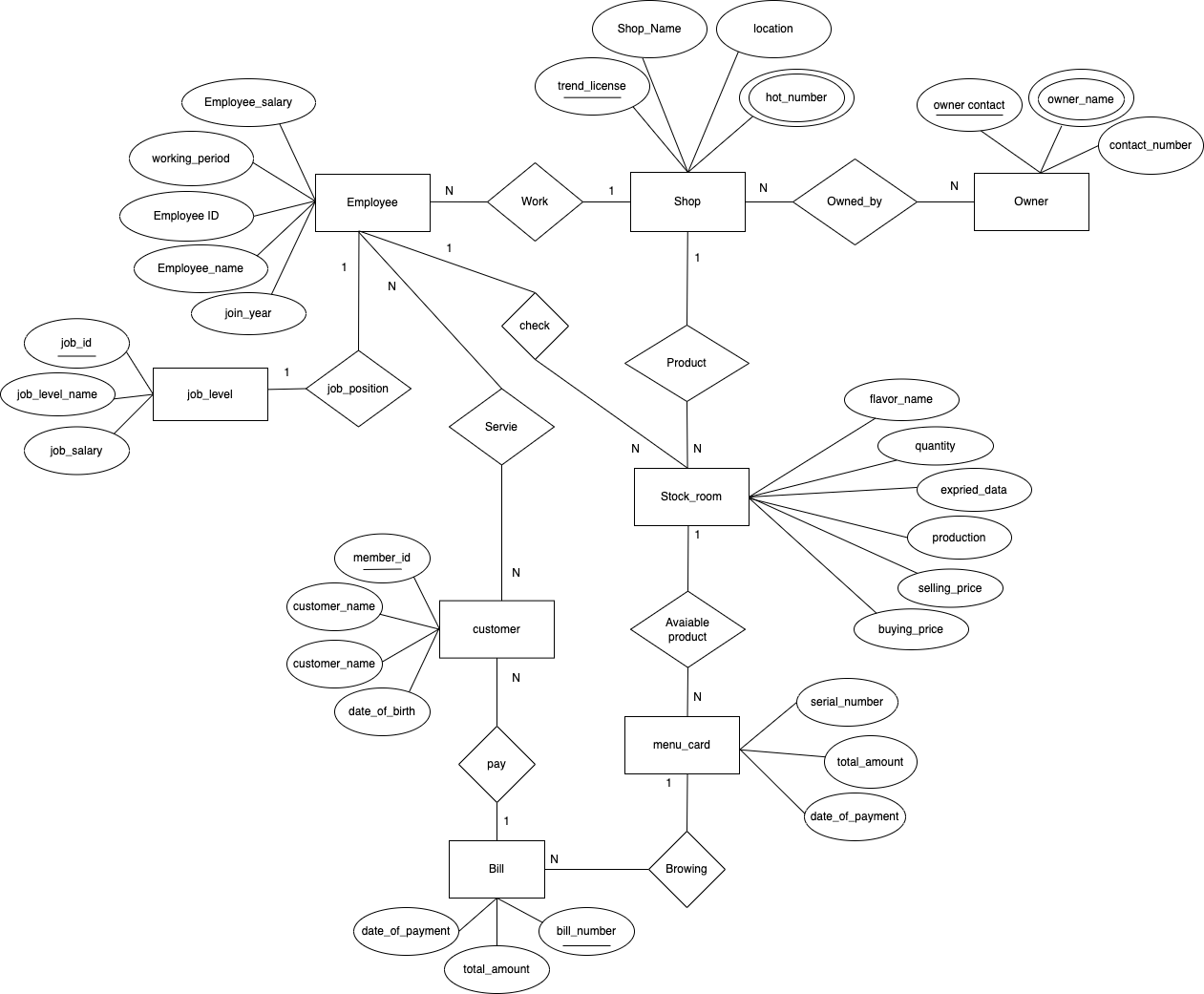
***Argho Das***

|  |  |
| --- | --- |
| **Group Members** | **ID** |
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| 1. **MD. FAYSAL KABIR** | **22-46783-1** |
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CASE STUDY:

In Ice-cream shop management system where store many information which is related with this shop like trend\_license\_number which is unique number, shop\_name ,hotline\_number and location. Many customers can visit to the shop at a time. They take sit and brows the menu card and order ice-cream. For every customer have a unique member\_id which will help identify a customer easier way .Also store customer\_name ,contact\_number .The menu\_card have a serial\_number ,flavor\_name, price. Menu cards take information from stock. After order ice-cream customer need to pay bill. Bill have date\_of\_payment ,bill\_number,total\_amount. At the same time shop may have many owners.And A owner can have many shop at a time but they have atlest one shop. So, here we also store owners information like owner\_name ,contact\_number, owner\_id. owner\_id is different for every owner. Many employees work for an ice-cream shop, and they divided by the job\_level. Every employee have their unique employee\_id and also store employee\_name ,employee\_salary ,joning\_year, working \_period and job\_id .Employee give many services to customers and also they get order from the owners. Job\_level\_id is unique number for one level. Job level also have jobe\_level\_name and employee\_id . Employee always looks after the stock. Stock contain flavor\_name which is different for every flavor ,quantity ,buying\_price ,selling\_price ,production\_date ,expired\_date .Shop have at least one shock room. On the stock room store ice cream.

E-R DIAGRAM:



NORMALIZATION :

1. **Work**(trend\_license,shop\_name,hot\_number,location,employee\_id,employee\_name,employee\_salary,working\_period,join\_year)

1NF : hot\_number is multivalued attribute .

2NF: trend\_license,shop\_name,hot\_number,location.

employee\_id,employee\_name,employee\_salary,working\_period,join\_year, trend\_license.

3NF: trend\_license,shop\_name,hot\_number,location.

employee\_id,employee\_name,employee\_salary,working\_period,join\_year,trend\_license.

TABLE :

1. trend\_license,shop\_name,hot\_number,location, employee\_id.
2. employee\_id,employee\_name,employee\_salary,working\_period,join\_year.
3. **Owned**(trend\_license,shop\_name,hot\_number,location,owner\_id,owner\_name,contact\_number)

1NF : hot\_number , owner\_name is multivalued attribute.

2NF : trend\_license ,shop\_name ,hot\_number,location.

owner\_id,owner\_name,contact\_number, trend\_license.

3NF : trend\_license ,shop\_name ,hot\_number,location.

owner\_id,owner\_name,contact\_number, trend\_license.

TABLE:

1. trend\_license ,shop\_name ,hot\_number,location.
2. owner\_id,owner\_name,contact\_number, trend\_license.
3. **Have**(trend\_license,shop\_name,hot\_number,location,flavor\_name,quantity,buying\_price,selling\_price,expire\_date,production\_date)

1NF : No multivalued attribute.

2NF : trend\_license,shop\_name,hot\_number,location.

flavor\_name,quantity,buying\_price,selling\_price,expire\_date,production\_date, trend\_license**.**

3NF : trend\_license,shop\_name,hot\_number,location.

flavor\_name,quantity, total\_profit, product\_validity, trend\_license.

total\_profit, buying\_price, selling\_price.

product\_validity, expire\_date,production\_date.

TABLE :

* + 1. trend\_license,shop\_name,hot\_number,location.
    2. flavor\_name,quantity,buying\_price,selling\_price, trend\_license, product\_validity.
    3. product\_validity, expire\_date,production\_date.
    4. total\_profit, buying\_price, selling\_price.

1. **Order**(owner\_id,owner\_name,contact\_number,employee\_id,employee\_name,employee\_salary,working\_period,join\_year)

1NF : owner\_name is multivalued attribute.

2NF : owner\_id,owner\_name,contact\_number.

employee\_id,employee\_name,employee\_salary,working\_period,join\_year.

oe\_id,owner\_id, employee\_id.

3NF : owner\_id,owner\_name,contact\_number.

employee\_id,employee\_name,employee\_salary,working\_period,join\_year.

oe\_id,owner\_id, employee\_id.

TABLE :

1. owner\_id,owner\_name,contact\_number.
2. employee\_id,employee\_name,employee\_salary,working\_period,join\_year.
3. oe\_id,owner\_id, employee\_id.
4. **Check**(employee\_id,employee\_name,employee\_salary,working\_period,join\_year,flavor\_name,quantity,buying\_price,selling\_price,expire\_date,production\_date)

1NF : No multivalued attribute.

2NF : employee\_id,employee\_name,employee\_salary,working\_period,join\_year.

flavor\_name,quantity,buying\_price,selling\_price,expire\_date,production\_date.

es\_id,employee\_id,flavor\_name.

3NF : employee\_id,employee\_name,employee\_salary,working\_period,join\_year.

flavor\_name,quantity,total\_profit,product\_validity.

total\_profit,buying\_price,selling\_price.

product\_validity, expire\_date,production\_date.

es\_id,employee\_id,flavor\_name.

TABLE :

1. employee\_id,employee\_name,employee\_salary,working\_period,join\_year.
2. flavor\_name,quantity,total\_profit,product\_validity.
3. total\_profit,buying\_price,selling\_price.
4. product\_validity, expire\_date,production\_date.
5. es\_id,employee\_id,flavor\_name.

1. **Service**(employee\_id,employee\_name,employee\_salary,working\_period,join\_year,member\_id,customer\_name,customer\_number,dob)

1NF : No multivalued attribute.

2NF : employee\_id,employee\_name,employee\_salary,working\_period,join\_year.

member\_id,customer\_name,customer\_number,dob.

em\_id , employee\_id,member\_id.

3NF : employee\_id,employee\_name,employee\_salary,working\_period,join\_year.

member\_id,customer\_name,customer\_number, dob.

em\_id , employee\_id,member\_id.

TABLE :

1. employee\_id,employee\_name,employee\_salary,working\_period,join\_year.
2. member\_id,customer\_name,customer\_number.
3. em\_id , employee\_id,member\_id.
4. **Job\_position**(employee\_id,employee\_name,employee\_salary,working\_period,join\_year,jod\_id,job\_level\_name, job\_salary)

1NF : No multivalued attribute.

2NF : employee\_id,employee\_name,employee\_salary,working\_period,join\_year, job\_salary.

jod\_id,job\_level\_name,employee\_id.

3NF : employee\_id,employee\_name,employee\_salary,working\_period,join\_year, job\_salary.

jod\_id,job\_level\_name,employee\_id.

TABLE :

(i). employee\_id,employee\_name,employee\_salary,working\_period,join\_year.

(ii). jod\_id,job\_level\_name,employee\_id.

1. **Pay**(bill\_number,total\_amount,date\_of\_payment,member\_id,customer\_name,customer\_number)

1NF : No multivalued attribute.

2NF : bill\_number,total\_amount,date\_of\_payment.

member\_id,customer\_name,customer\_number,bill\_number.

3NF : bill\_number,total\_amount,date\_of\_payment.

member\_id,customer\_name,customer\_number,bill\_number.

TABLE :

1. bill\_number,total\_amount,date\_of\_payment.
2. member\_id,customer\_name,customer\_number,bill\_number.
3. **Browsing**(serial\_number,total\_amount, member\_id,customer\_name,customer\_number)

1NF : No multivalued attribute.

2NF : serial\_number,total\_amount.

member\_id,customer\_name,customer\_number,serial\_number .

3NF : serial\_number,price.

member\_id,customer\_name,customer\_number,serial\_number .

TABLE :

1. serial\_number,price.
2. member\_id,customer\_name,customer\_number,serial\_number .
3. **Taken**(serial\_number,total\_amount,flavor\_name,quantity,buying\_price,selling\_price,expire\_date,production\_date)

1NF : No multivalued attribute.

2NF : serial\_number,total\_amount,flavor\_name.

flavor\_name,quantity,buying\_price,selling\_price,expire\_date,production\_date.

3NF : serial\_number,total\_amount,flavor\_name.

flavor\_name,quantity,total\_profit, product\_validity.

total\_profit,buying\_price,selling\_price.

product\_validity, expire\_date,production\_date.

TABLE :

1. serial\_number,total\_amount,flavor\_name.
2. flavor\_name,quantity,total\_profit, product\_validity.
3. total\_profit,buying\_price,selling\_price.
4. product\_validity, expire\_date,production\_date.

**Final Table :**

1. trend\_license, shop\_name, hot\_number, location.
2. employee\_id, employee\_name, employee\_salary, working\_period, join\_year, trend\_license
3. jod\_id,job\_level\_name,employee\_id, job salary.
4. owner\_id, owner\_name, contact\_number, trend\_license.
5. flavor\_name, quantity, total\_profit, product\_validity, trend\_license.
6. total\_profit, buying\_price, selling\_price.
7. product\_validity, expire\_date,production\_date.
8. oe\_id,owner\_id, employee\_id.
9. es\_id,employee\_id,flavor\_name.
10. em\_id , employee\_id, member\_id.
11. bill\_number, total\_amount, date\_of\_payment.
12. member\_id,customer\_name,customer\_number,serial\_number , dob.
13. member\_id, customer\_name, customer\_number, bill\_number, DOB.
14. serial\_number,price,flavor\_name.

**TABLE CREATION :**

1. **CREATE TABLE EMPLOYEE ( EMPLOYEE\_ID VARCHAR(10) CONSTRAINT EID\_PKK PRIMARY KEY,EMPLOYEE\_NAME VARCHAR(30) NOT NULL,EMPLOYEE\_SALARY NUMBER(6) DEFAULT 0,WORKING\_PERIOD NUMBER (2) CONSTRAINT WPB\_CK CHECK( WORKING\_PERIOD >=6), JOIN\_DATE DATE, JOB\_ID NUMBER(3) CONSTRAINT JBD\_PK\_FK REFERENCES JOB\_LEVEL (JOB\_ID), TREND\_LICENSE CONSTRAINT TF\_FK REFERENCES SHOP(TREND\_LICENSE));**

Graphical user interface

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1. **CREATE TABLE SHOP(TREND\_LICENSE NUMBER(8) CONSTRAINT TL\_PK PRIMARY KEY,SHOP\_NAME VARCHAR2(20) UNIQUE,HOT\_NUMBER VARCHAR2(15) UNIQUE,LOCATION VARCHAR2 (35) NOT NULL);**

Graphical user interface, text, application

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1. **CREATE TABLE OWNER(OWNER\_ID NUMBER(4) CONSTRAINT "OW\_ID>=1000" PRIMARY KEY CHECK( OWNER\_ID >= 1000),OWNER\_NAME VARCHAR2(8) NOT NULL, CONTACT\_NUMBER NUMBER(13) UNIQUE, TREND\_LICENSE CONSTRAINT TL\_FKO REFERENCES SHOP (TREND\_LICENSE));**

Graphical user interface, text, application, email

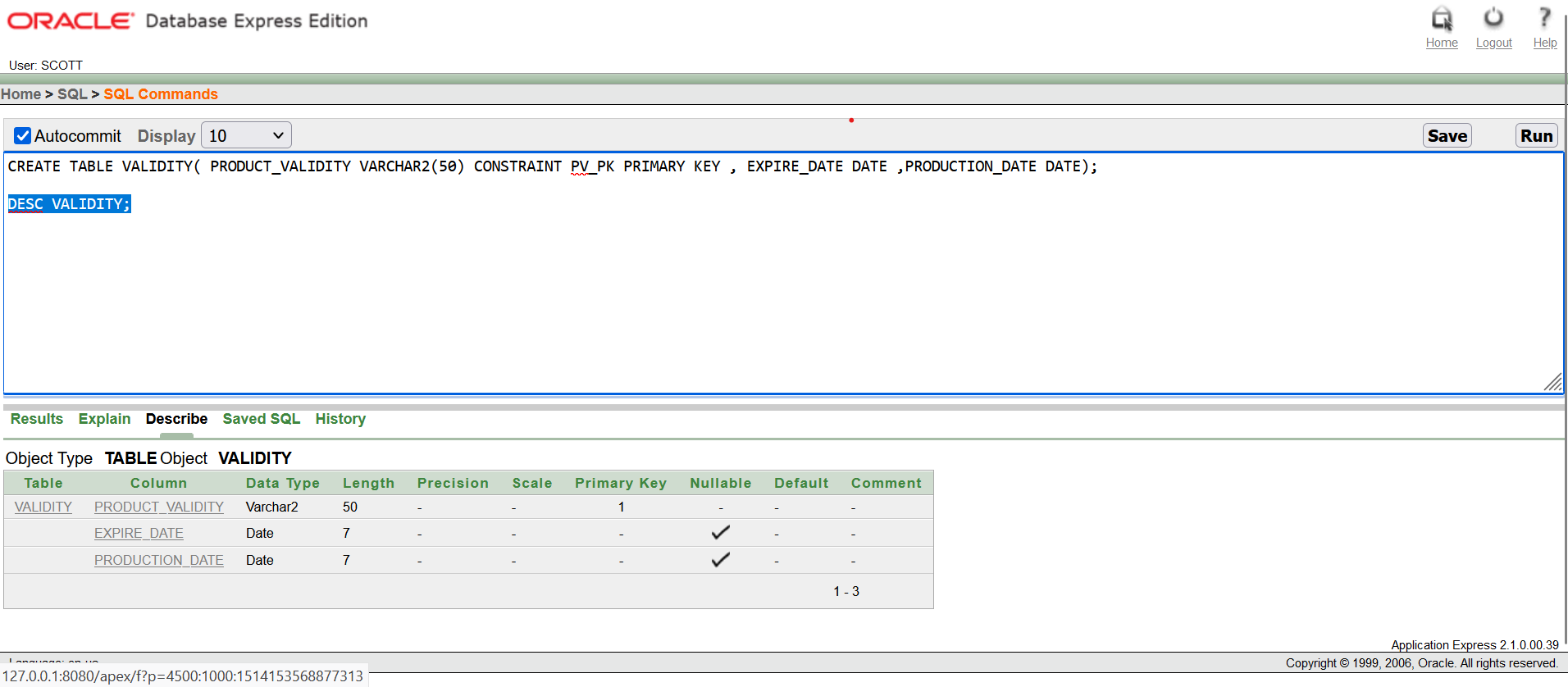
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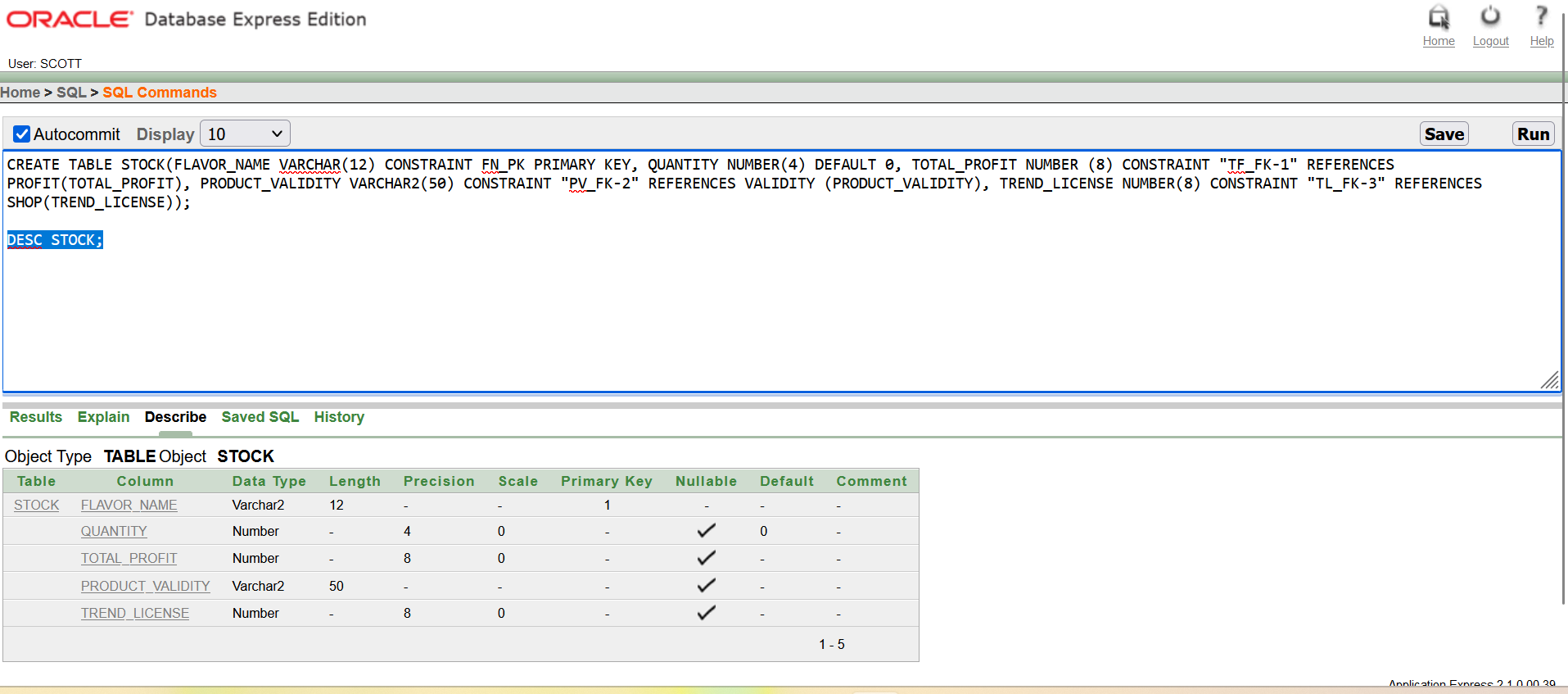
1. **CREATE TABLE PROFIT(TOTAL\_PROFIT NUMBER(8) CONSTRAINT TF\_PK PRIMARY KEY , BUYING\_PRICE NUMBER(8) NOT NULL, SELLING\_PRICE NUMBER(8) NOT NULL);**

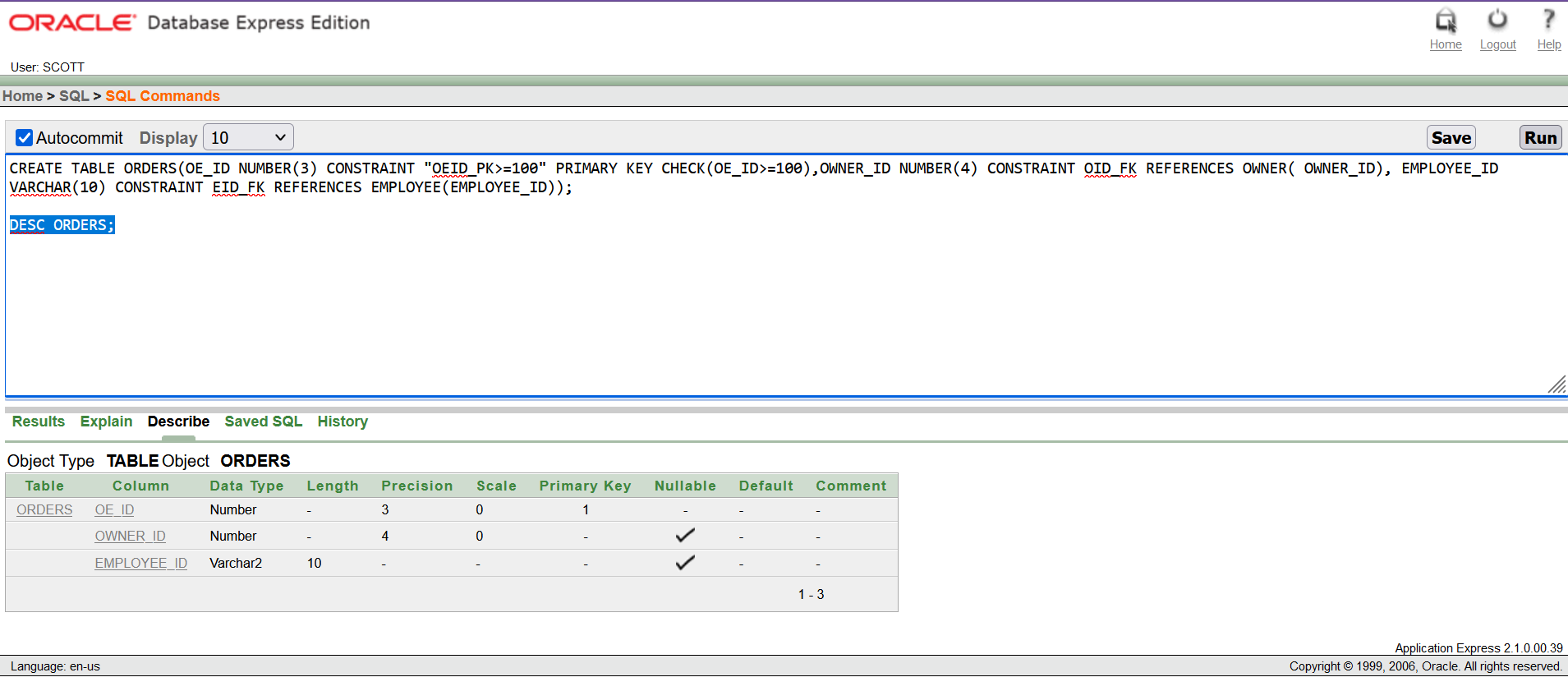
Graphical user interface, text, application

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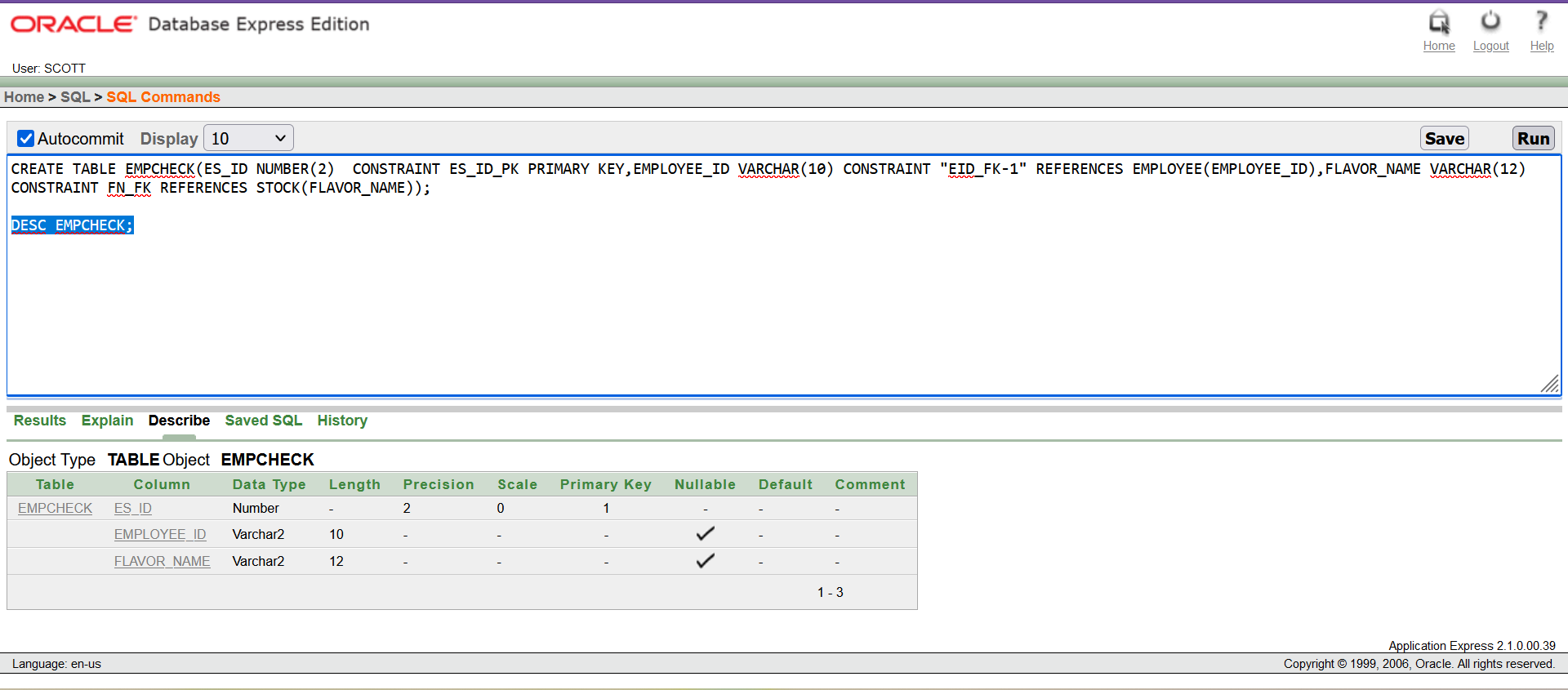
1. **CREATE TABLE VALIDITY( PRODUCT\_VALIDITY VARCHAR2(50) CONSTRAINT PV\_PK PRIMARY KEY , EXPIRE\_DATE DATE ,PRODUCTION\_DATE DATE);**



1. **CREATE TABLE STOCK(FLAVOR\_NAME VARCHAR(12) CONSTRAINT FN\_PK PRIMARY KEY, QUANTITY NUMBER(4) DEFAULT 0, TOTAL\_PROFIT NUMBER (8) CONSTRAINT "TF\_FK-1" REFERENCES PROFIT(TOTAL\_PROFIT), PRODUCT\_VALIDITY VARCHAR2(50) CONSTRAINT "PV\_FK-2" REFERENCES VALIDITY (PRODUCT\_VALIDITY), TREND\_LICENSE NUMBER(8) CONSTRAINT "TL\_FK-3" REFERENCES SHOP(TREND\_LICENSE));** ****
2. **CREATE TABLE ORDERS(OE\_ID NUMBER(3) CONSTRAINT "OEID\_PK>=100" PRIMARY KEY CHECK(OE\_ID>=100),OWNER\_ID NUMBER(4) CONSTRAINT OID\_FK REFERENCES OWNER( OWNER\_ID), EMPLOYEE\_ID VARCHAR(10) CONSTRAINT EID\_FK REFERENCES EMPLOYEE(EMPLOYEE\_ID))**



1. **CREATE TABLE EMPCHECK(ES\_ID NUMBER(2) CONSTRAINT ES\_ID\_PK PRIMARY KEY,EMPLOYEE\_ID VARCHAR(10) CONSTRAINT "EID\_FK-1" REFERENCES EMPLOYEE(EMPLOYEE\_ID),FLAVOR\_NAME VARCHAR(12) CONSTRAINT FN\_FK REFERENCES STOCK(FLAVOR\_NAME))**

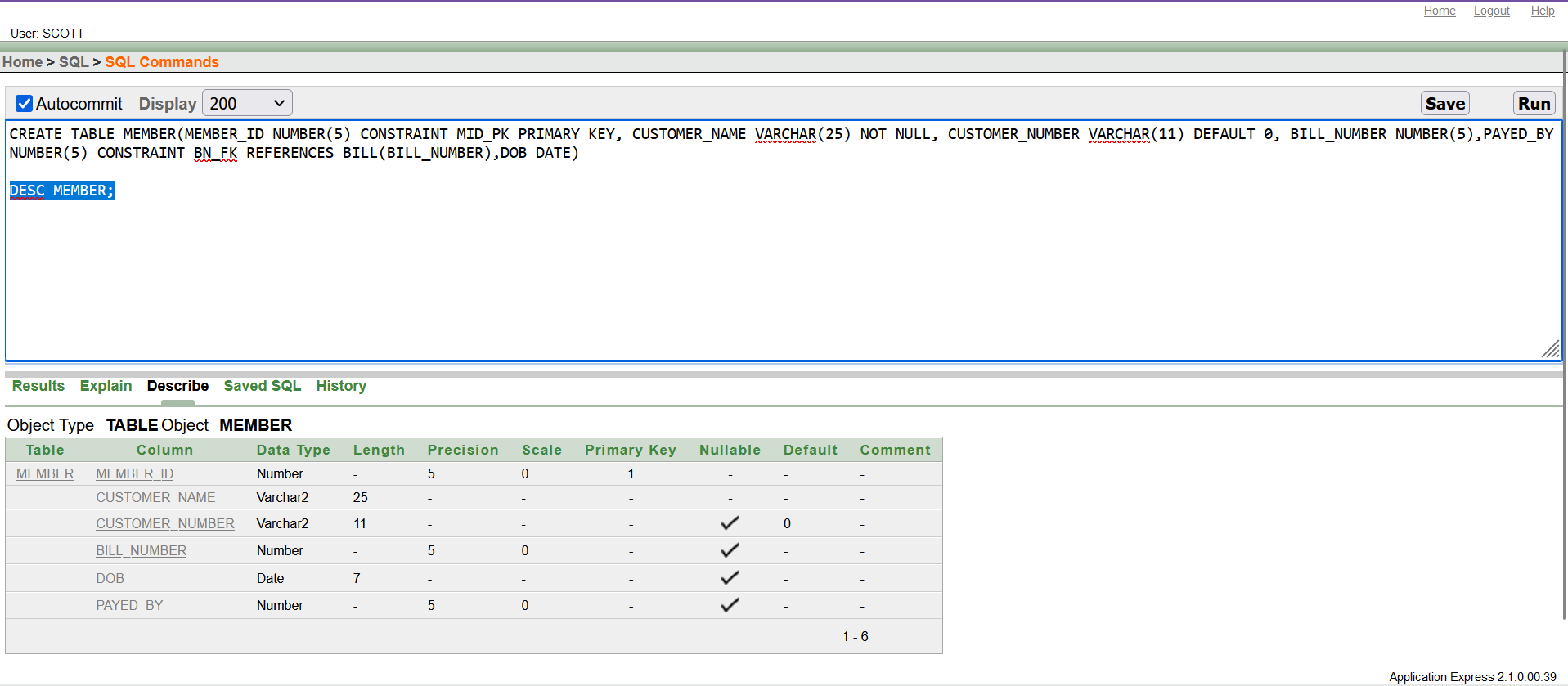


1. **CREATE TABLE BILL(BILL\_NUMBER NUMBER(5) CONSTRAINT "BN\_PK>=10000" PRIMARY KEY CHECK(BILL\_NUMBER>=10000), TOTAL\_AMOUNT NUMBER(4) NOT NULL, DATE\_OF\_PAYMENT DATE)**

Graphical user interface, text, application, email

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1. **CREATE TABLE MEMBER(MEMBER\_ID NUMBER(5) CONSTRAINT MID\_PK PRIMARY KEY, CUSTOMER\_NAME VARCHAR(25) NOT NULL, CUSTOMER\_NUMBER VARCHAR(11) DEFAULT 0, BILL\_NUMBER NUMBER(5),PAYED\_BY NUMBER(5) CONSTRAINT BN\_FK REFERENCES BILL(BILL\_NUMBER),DOB DATE)**

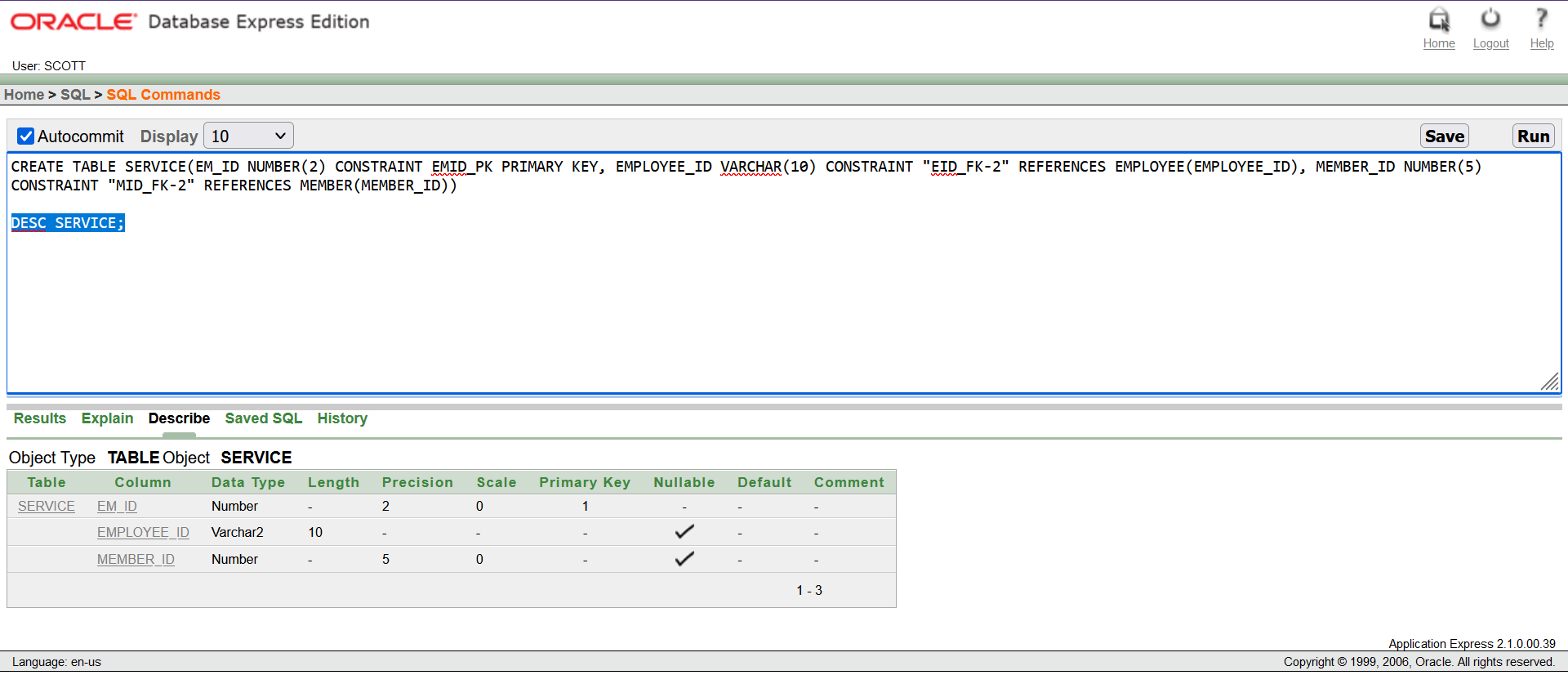
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1. **CREATE TABLE MEMBERBROWS (MEMBER\_ID NUMBER(5) CONSTRAINT "MID\_PK-MB" PRIMARY KEY, CUSTOMER\_NAME VARCHAR(25) NOT NULL, CUSTOMER\_NUMBER VARCHAR(11) DEFAULT 0, SERIAL\_NUMBER NUMBER(2) CONSTRAINT "SN\_FK-M" REFERENCES MENU(SERIAL\_NUMBER))**

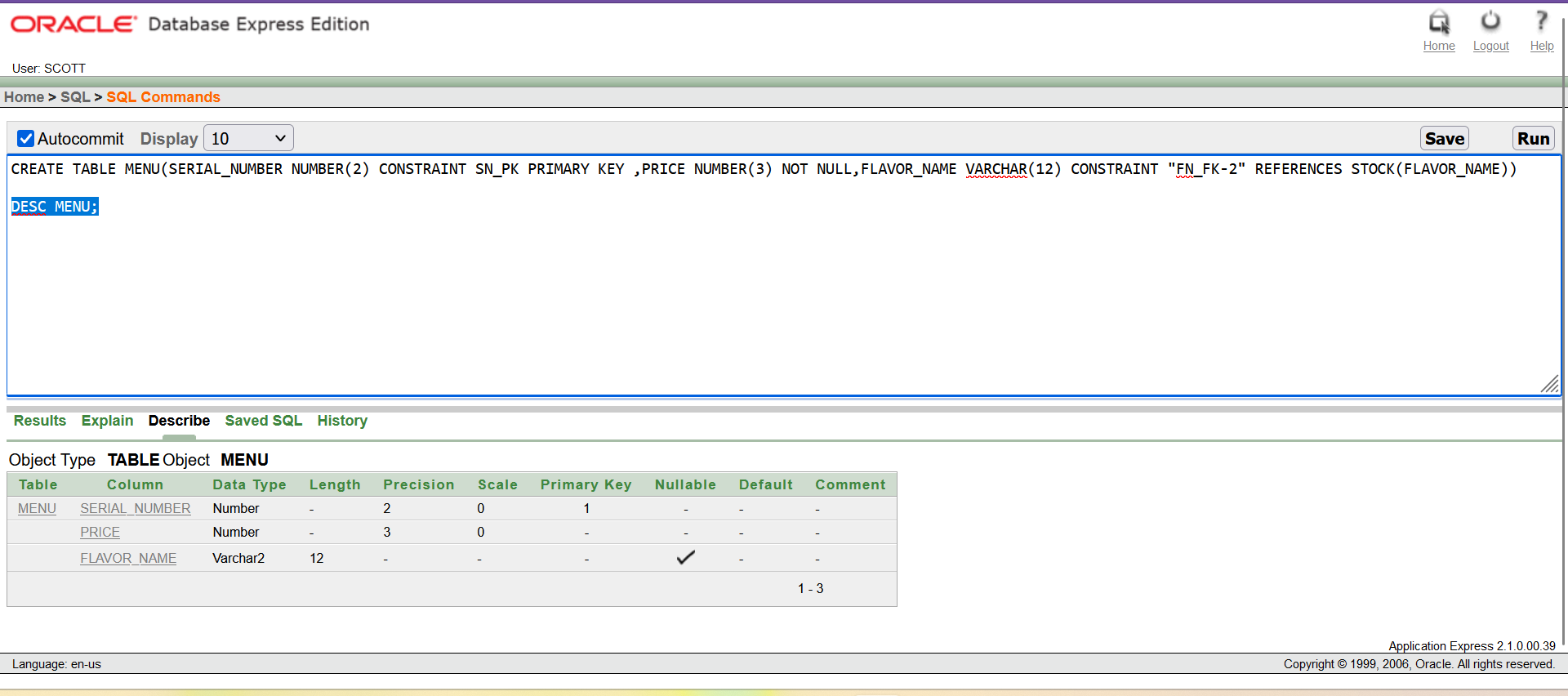
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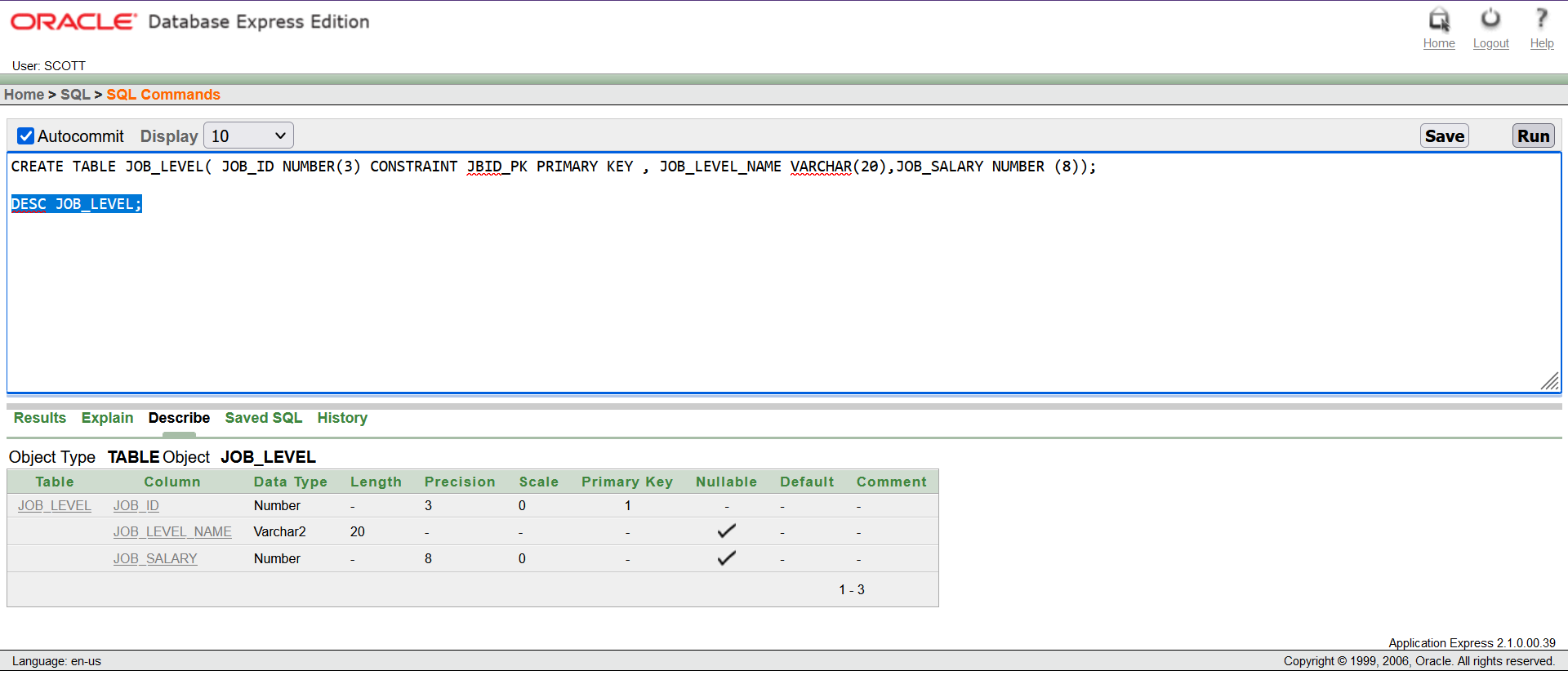
1. **CREATE TABLE SERVICE(EM\_ID NUMBER(2) CONSTRAINT EMID\_PK PRIMARY KEY, EMPLOYEE\_ID VARCHAR(10) CONSTRAINT "EID\_FK-2" REFERENCES EMPLOYEE(EMPLOYEE\_ID), MEMBER\_ID NUMBER(5) CONSTRAINT "MID\_FK-2" REFERENCES MEMBER(MEMBER\_ID))**



1. **CREATE TABLE MENU(SERIAL\_NUMBER NUMBER(2) CONSTRAINT SN\_PK PRIMARY KEY ,PRICE NUMBER(3) NOT NULL,FLAVOR\_NAME VARCHAR(12) CONSTRAINT "FN\_FK-2" REFERENCES STOCK(FLAVOR\_NAME))**

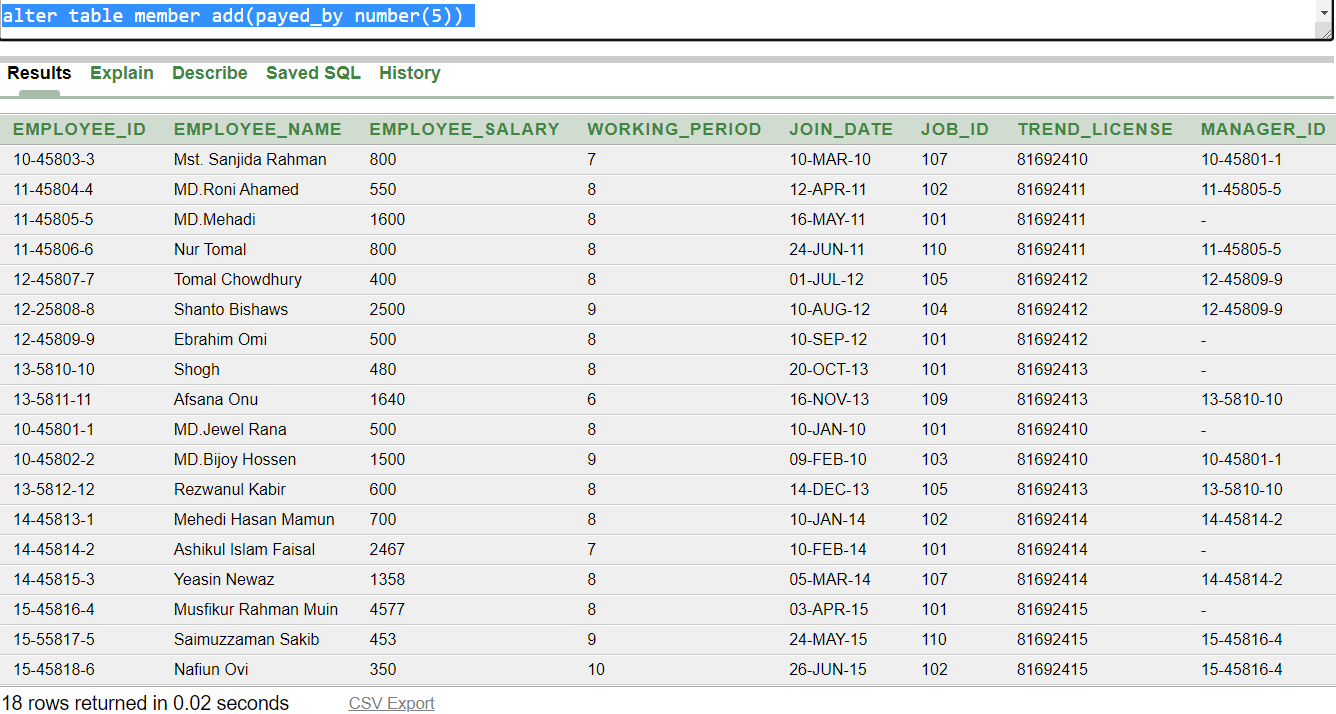


1. **CREATE TABLE JOB\_LEVEL( JOB\_ID NUMBER(3) CONSTRAINT JBID\_PK PRIMARY KEY , JOB\_LEVEL\_NAME VARCHAR(20),JOB\_SALARY NUMBER (8));**



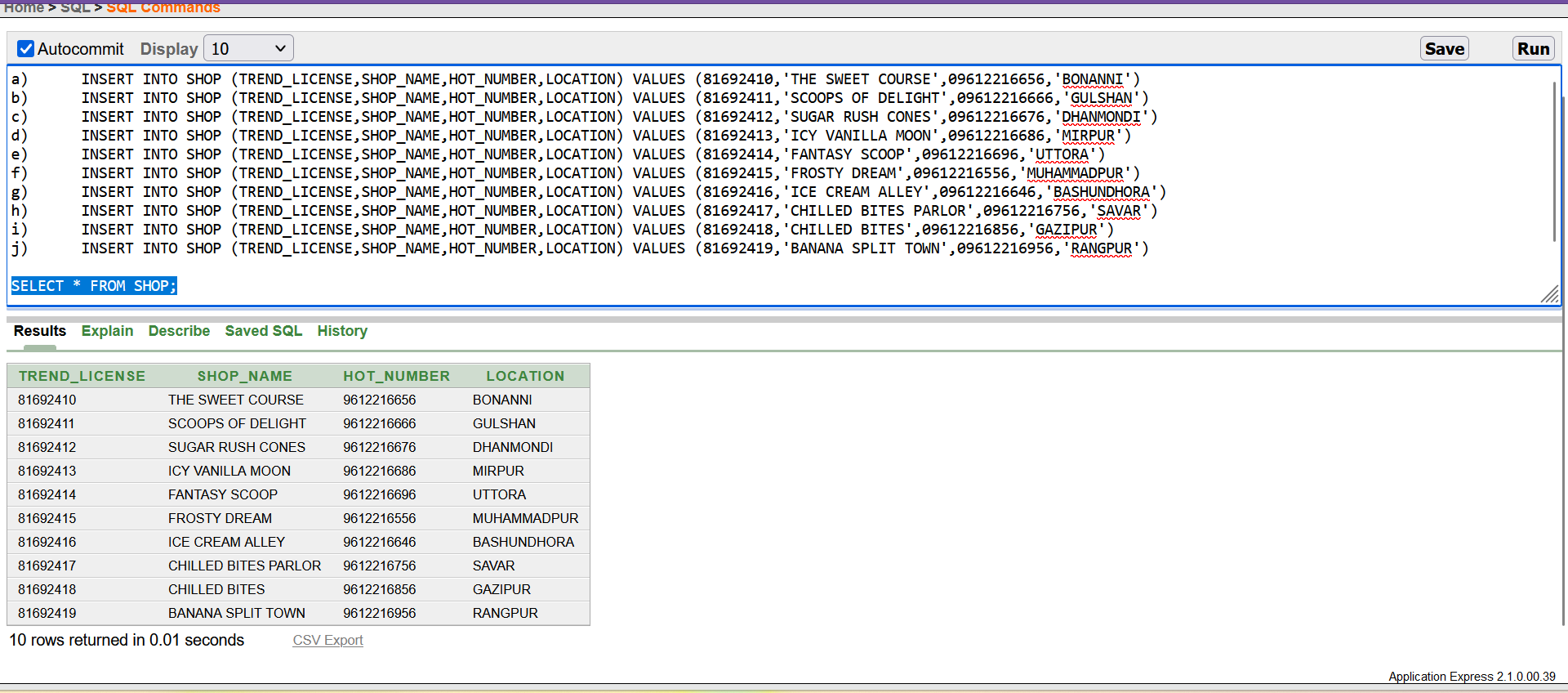
**Data Insertion :**

1. **Employee :**
2. INSERT INTO EMPLOYEE (MANAGER\_ID) VALUES('15-45816-4') WHERE EMPLOYEE\_ID = "15-45816-4"
3. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,JOB\_ID,TREND\_LICENSE) VALUES ('10-45801-1', 'MD.JEWEL RANA', 500, 8, '10-JAN-10',101, 81692410)
4. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('10-45802-2', 'MD.BIJOY HOSSEN', 1500, 9, '9-FEB-10','10-45801-1',103, 81692410)
5. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('10-45803-3', 'MST. SANJIDA RAHMAN', 800, 7, '10-MAR-10','10-45801-1',107, 81692410)
6. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('11-45804-4', 'MD.RONI AHAMED', 550, 8, '12-APR-11','11-45805-5',102, 81692411)
7. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE, JOB\_ID, TREND\_LICENSE) VALUES ('11-45805-5', 'MD.MEHADI ', 1600, 8, '16-MAY-11',101, 81692411)
8. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('11-45806-6', 'NUR TOMAL', 800, 8, '24-JUN-11','11-45805-5', 110,81692411)
9. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('12-45807-7', 'TOMAL CHOWDHURY', 400, 8, '01-JUL-12','12-45809-9', 105, 81692412)
10. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('12-25808-8', 'SHANTO BISHAWS', 2500, 9, '10-AUG-12','12-45809-9',104, 81692412)
11. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE, JOB\_ID, TREND\_LICENSE) VALUES ('12-45809-9', 'EBRAHIM OMI', 500, 8, '10-SEP-12',101, 81692412)
12. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE, JOB\_ID, TREND\_LICENSE) VALUES ('13-5810-10', 'SHOGH ', 480, 8, '20-OCT-13', 101,81692413)
13. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('13-5811-11', 'AFSANA ONU', 1640,6, '16-NOV-13','13-5810-10',109, 81692413)
14. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('13-5812-12', 'REZWANUL KABIR', 600, 8, '14-DEC-13','13-5810-10',105, 81692413)
15. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('14-45813-1', 'MEHEDI HASAN MAMUN', 700, 8, '10-JAN-14','14-45814-2',102, 81692414)
16. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE, JOB\_ID, TREND\_LICENSE) VALUES ('14-45814-2', 'ASHIKUL ISLAM FAISAL', 2467, 7, '10-FEB-14',101, 81692414)
17. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('14-45815-3', 'YEASIN NEWAZ', 1358, 8, '5-MAR-14','14-45814-2', 107, 81692414)
18. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE, JOB\_ID, TREND\_LICENSE) VALUES ('15-45816-4', 'MUSFIKUR RAHMAN MUIN', 4577, 8, '3-APR-15',101, 81692415)
19. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('15-55817-5', 'SAIMUZZAMAN SAKIB', 453, 9, '24-MAY-15','15-45816-4',110, 81692415)
20. INSERT INTO EMPLOYEE(EMPLOYEE\_ID, EMPLOYEE\_NAME, EMPLOYEE\_SALARY, WORKING\_PERIOD, JOIN\_DATE,MANAGER\_ID, JOB\_ID, TREND\_LICENSE) VALUES ('15-45818-6', 'NAFIUN OVI', 350, 10, '26-JUN-15', '15-45816-4', 102,81692415)



**2. Shop :**

1. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692410,'THE SWEET COURSE',09612216656,'BONANNI')
2. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692411,'SCOOPS OF DELIGHT',09612216666,'GULSHAN')
3. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692412,'SUGAR RUSH CONES',09612216676,'DHANMONDI')
4. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692413,'ICY VANILLA MOON',09612216686,'MIRPUR')
5. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692414,'FANTASY SCOOP',09612216696,'UTTORA')
6. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692415,'FROSTY DREAM',09612216556,'MUHAMMADPUR')
7. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692416,'ICE CREAM ALLEY',09612216646,'BASHUNDHORA')
8. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692417,'CHILLED BITES PARLOR',09612216756,'SAVAR')
9. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692418,'CHILLED BITES',09612216856,'GAZIPUR')
10. INSERT INTO SHOP (TREND\_LICENSE,SHOP\_NAME,HOT\_NUMBER,LOCATION) VALUES (81692419,'BANANA SPLIT TOWN',09612216956,'RANGPUR')



**3. Owner :**

a) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1001, 'TAUHID', 12345611, 81692410)

b) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1002, 'HASAN', 12345612, 81692411)

c) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1003, 'MAAHI', 12345613, 81692412)

d) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1004, 'JHOTHIR', 12345614, 81692413)

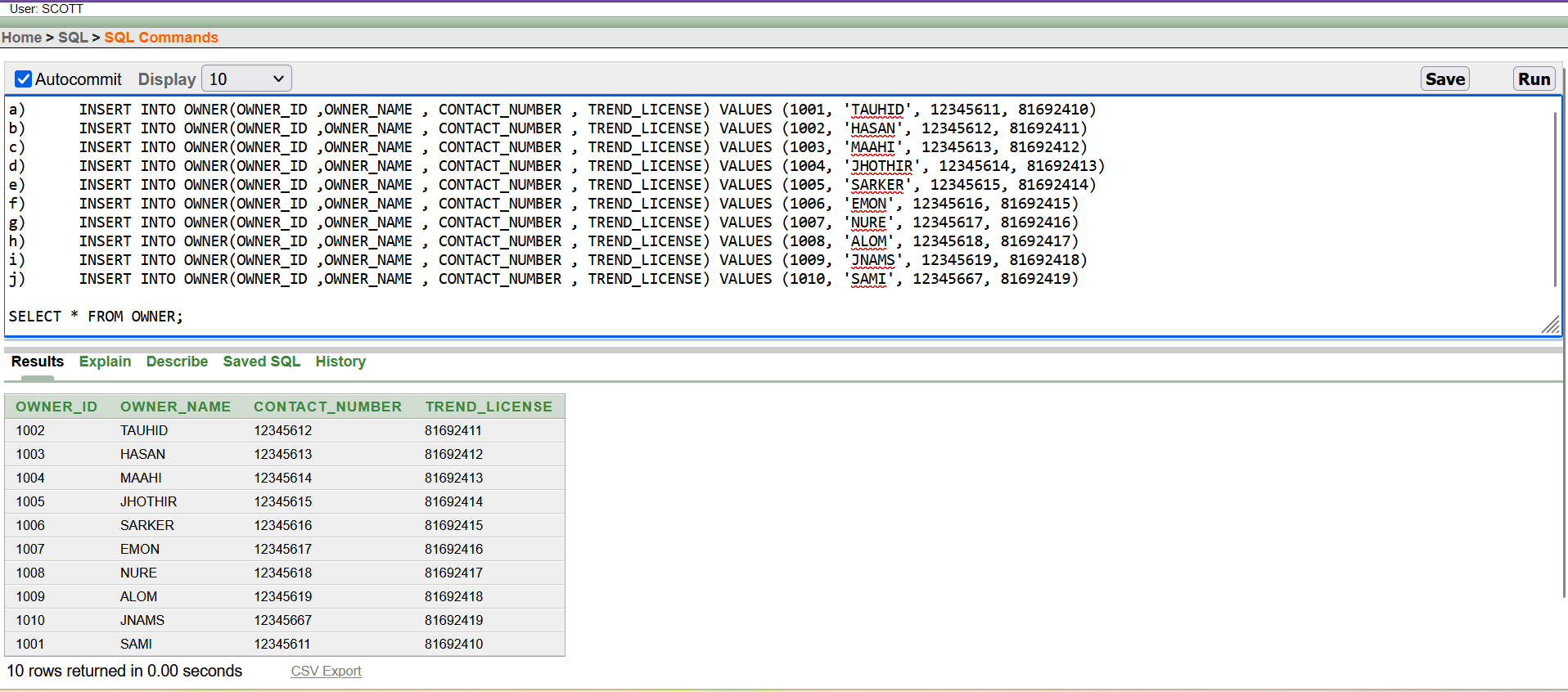
e) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1005, 'SARKER', 12345615, 81692414)

f) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1006, 'EMON', 12345616, 81692415)

g) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1007, 'NURE', 12345617, 81692416)

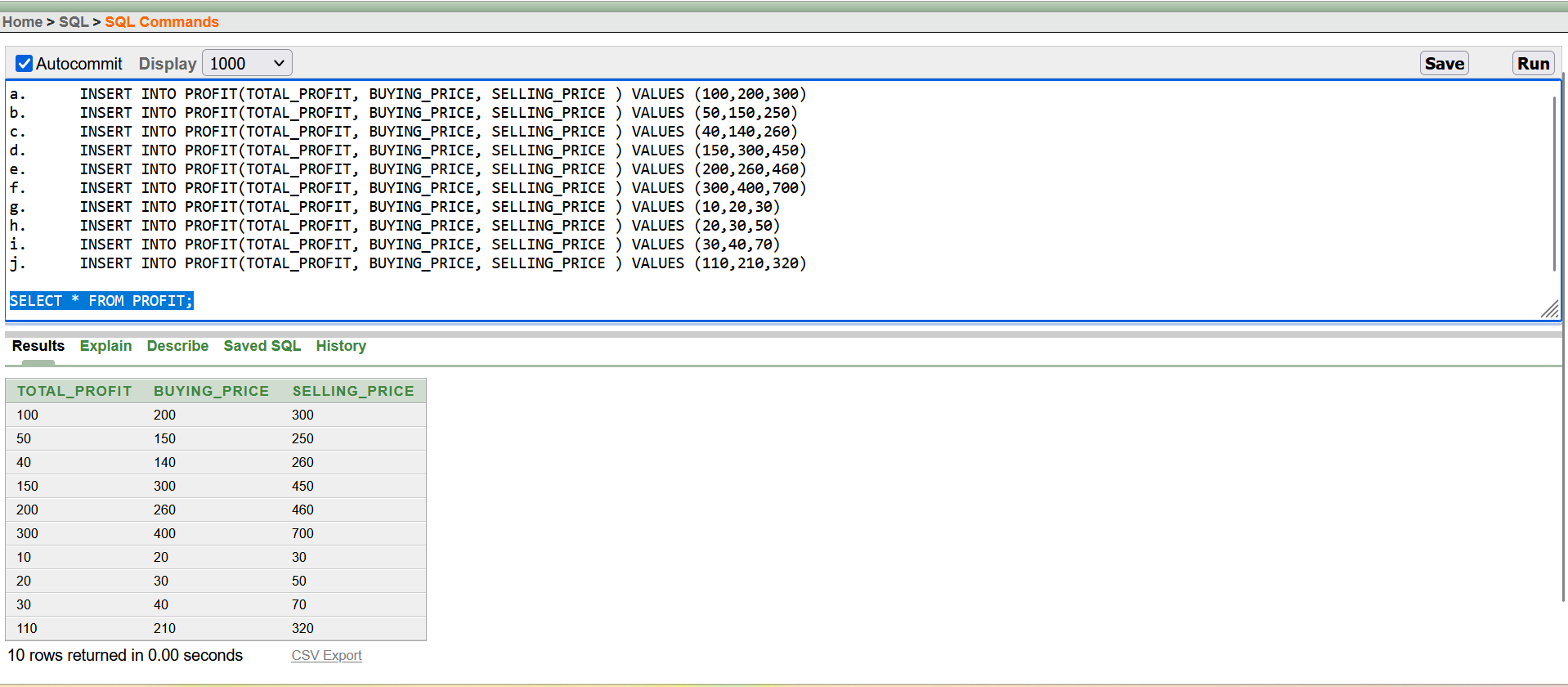
h) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1008, 'ALOM', 12345618, 81692417)

i) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1009, 'JNAMS', 12345619, 81692418)

j) INSERT INTO OWNER(OWNER\_ID ,OWNER\_NAME , CONTACT\_NUMBER , TREND\_LICENSE) VALUES (1010, 'SAMI', 12345667, 81692419)

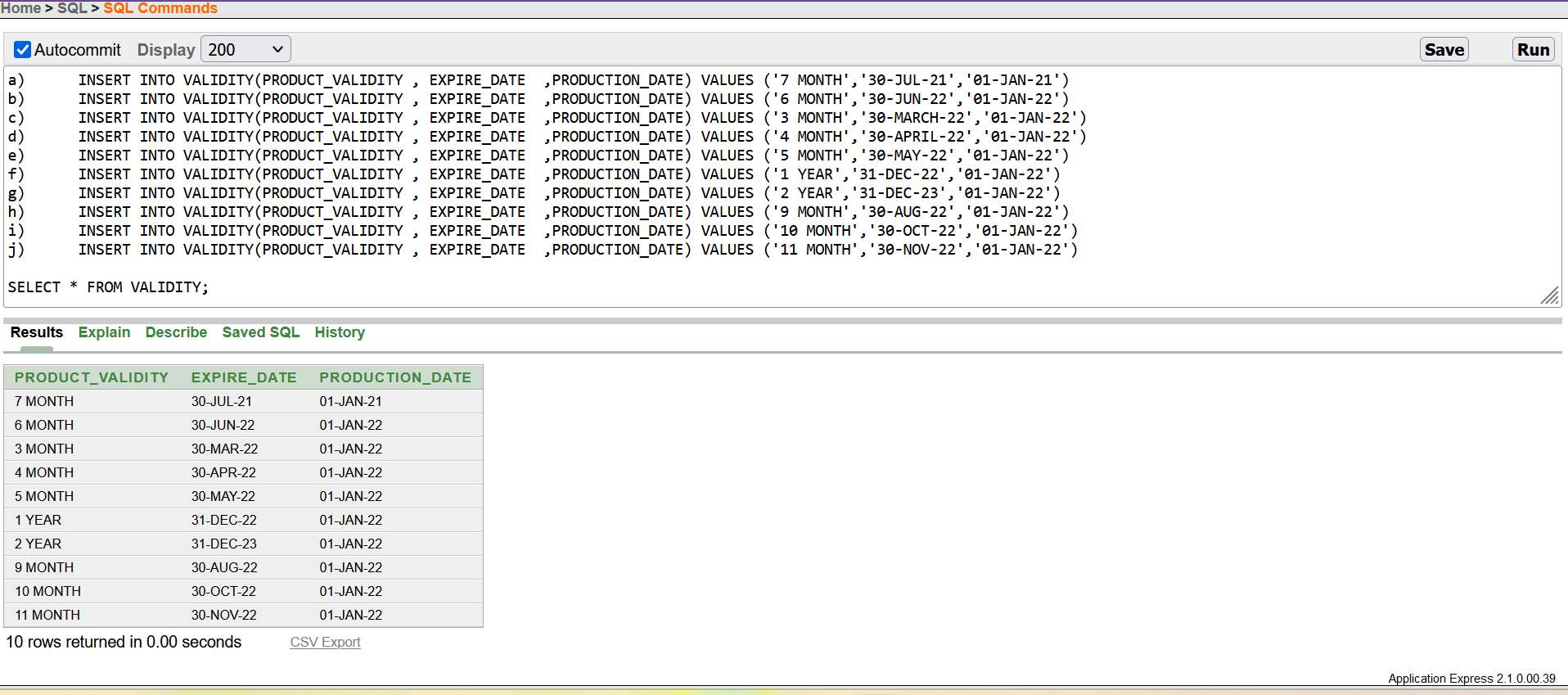
**4. Profit :**

1. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (100,200,300)
2. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (50,150,250)
3. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (40,140,260)
4. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (150,300,450)
5. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (200,260,460)
6. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (300,400,700)
7. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (10,20,30)
8. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (20,30,50)
9. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (30,40,70)
10. INSERT INTO PROFIT(TOTAL\_PROFIT, BUYING\_PRICE, SELLING\_PRICE ) VALUES (110,210,320)



**5. Validity :**

1. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('7 MONTH','30-JULY-21','1-JAN-21')
2. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('6 MONTH','30-JUN-22','1-JAN-22')
3. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('3 MONTH','30-MARCH-22','1-JAN-22')
4. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('4 MONTH','30-APRIL-22','1-JAN-22')
5. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('5 MONTH','30-MAY-22','1-JAN-22')
6. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('1 YEAR','31-DEC-22','1-JAN-22')
7. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('2 YEAR','31-DEC-23','1-JAN-22')
8. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('9 MONTH','30-AUG-22','1-JAN-22')
9. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('10 MONTH','30-OCT-22','1-JAN-22')
10. INSERT INTO VALIDITY(PRODUCT\_VALIDITY , EXPIRE\_DATE ,PRODUCTION\_DATE) VALUES ('11 MONTH','30-NOV-22','1-JAN-22')



**6. Stock :**

1. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('COOKIESCREM',100,100,'7 MONTH',81692410)
2. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('CHOCOLATE',90,50,'6 MONTH',81692411)
3. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('VANILLA',80,40,'3 MONTH',81692412)
4. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('MINTCHOKLATE',70,150,'4 MONTH',81692413)
5. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('CHOLATECHIP',60,200,'5 MONTH',81692414)
6. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('STRAWBERRY',50,300,'1 YEAR',81692415)
7. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('FRENCHVANILA',10,100,'2 YEAR',81692416)
8. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('ROCKY ROAD',30,20,'9 MONTH',81692417)
9. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('BUTTER PECAN',110,30,'10 MONTH',81692418)
10. INSERT INTO STOCK(FLAVOR\_NAME , QUANTITY, TOTAL\_PROFIT, PRODUCT\_VALIDITY , TREND\_LICENSE ) VALUES ('MOCHA',120,110,'11 MONTH',81692419)

Table

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**7. Orders :**

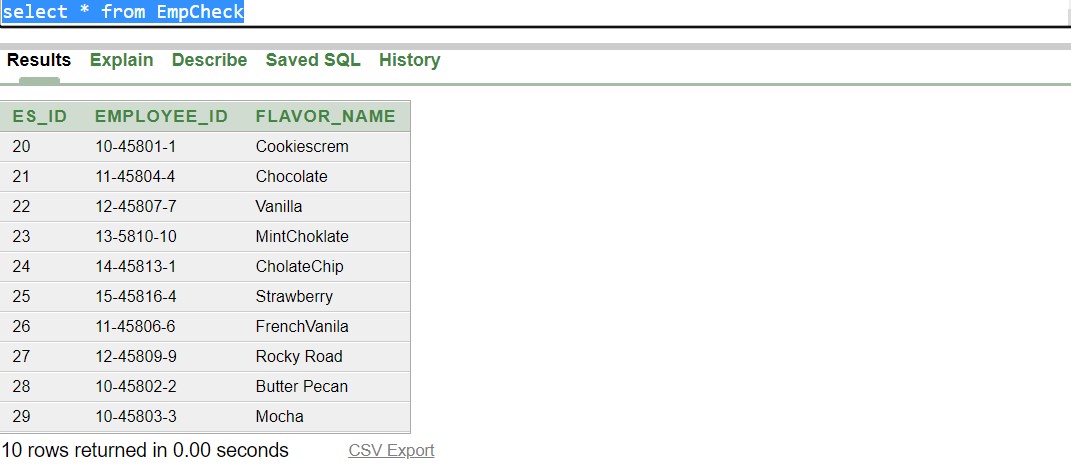
1. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (101,1000,'10-45801-1')
2. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (102,1001,'11-45804-4')
3. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (103,1002,'12-45807-7')
4. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (104,1003,'13-5810-10')
5. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (105,1004,'14-45813-1')
6. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (106,1005,'15-45816-4')
7. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (107,1006,'11-45806-6')
8. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (108,1007,'12-45809-9')
9. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (109,1008,'10-45802-2')
10. INSERT INTO ORDERS(OE\_ID ,OWNER\_ID , EMPLOYEE\_ID ) VALUES (110,1009,'10-45803-3')

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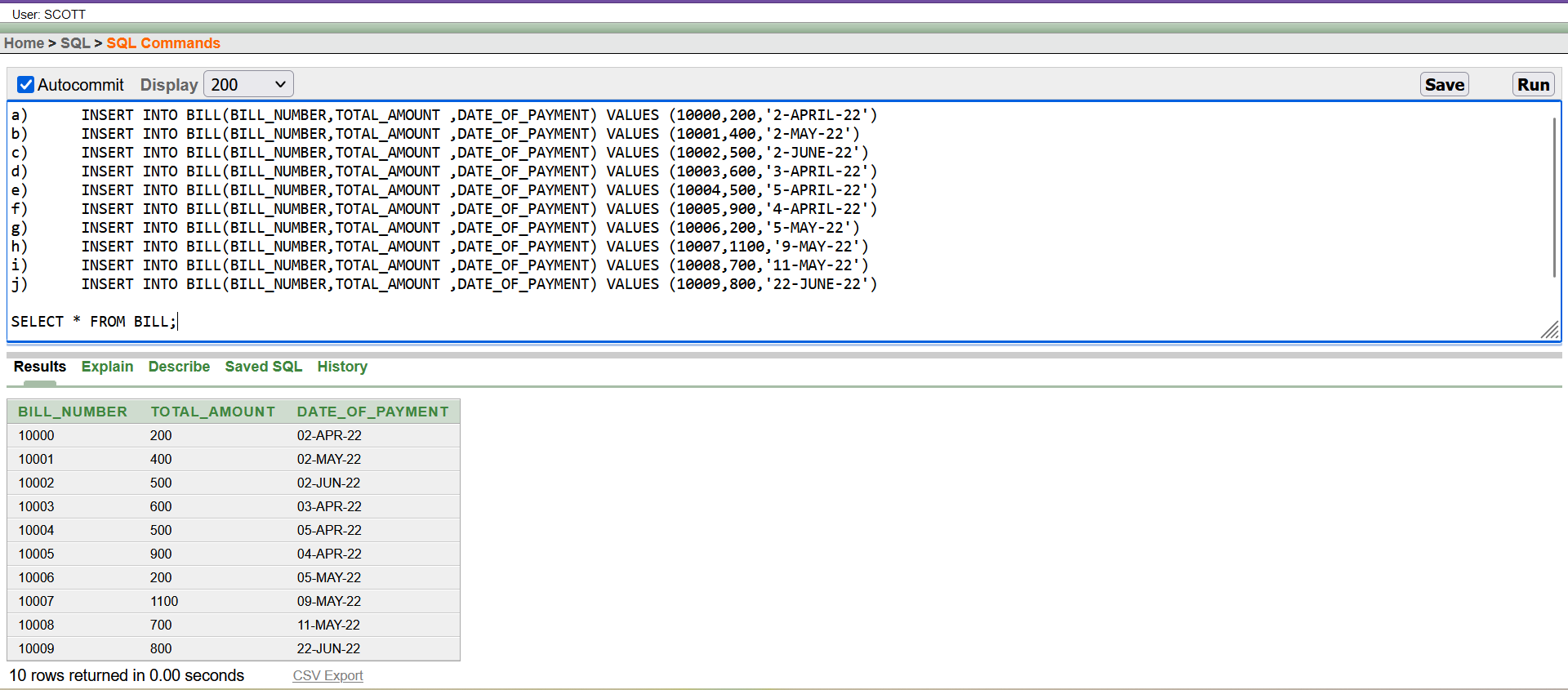
**8. EmpCheck :**

1. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (20,'10-45801-1','COOKIESCREM')
2. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (21,'11-45804-4','CHOCOLATE')
3. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (22,'12-45807-7','VANILLA')
4. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (23,'13-5810-10','MINTCHOKLATE')
5. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (24,'14-45813-1','CHOLATECHIP')
6. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (25,'15-45816-4','STRAWBERRY')
7. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (26,'11-45806-6','FRENCHVANILA')
8. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (27,'12-45809-9','ROCKY ROAD')
9. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (28,'10-45802-2','BUTTER PECAN')
10. INSERT INTO EMPCHECK(ES\_ID,EMPLOYEE\_ID ,FLAVOR\_NAME ) VALUES (29,'10-45803-3','MOCHA')



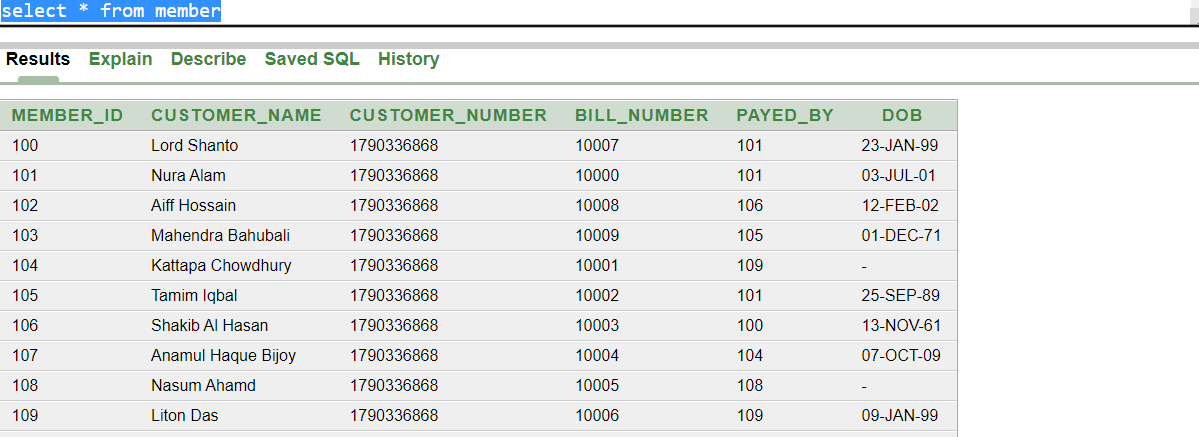
**9. Bill :**

1. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10000,200,'2-APRIL-22')
2. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10001,400,'2-MAY-22')
3. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10002,500,'2-JUNE-22')
4. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10003,600,'3-APRIL-22')
5. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10004,500,'5-APRIL-22')
6. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10005,900,'4-APRIL-22')
7. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10006,200,'5-MAY-22')
8. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10007,1100,'9-MAY-22')
9. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10008,700,'11-MAY-22')
10. INSERT INTO BILL(BILL\_NUMBER,TOTAL\_AMOUNT ,DATE\_OF\_PAYMENT) VALUES (10009,800,'22-JUNE-22')



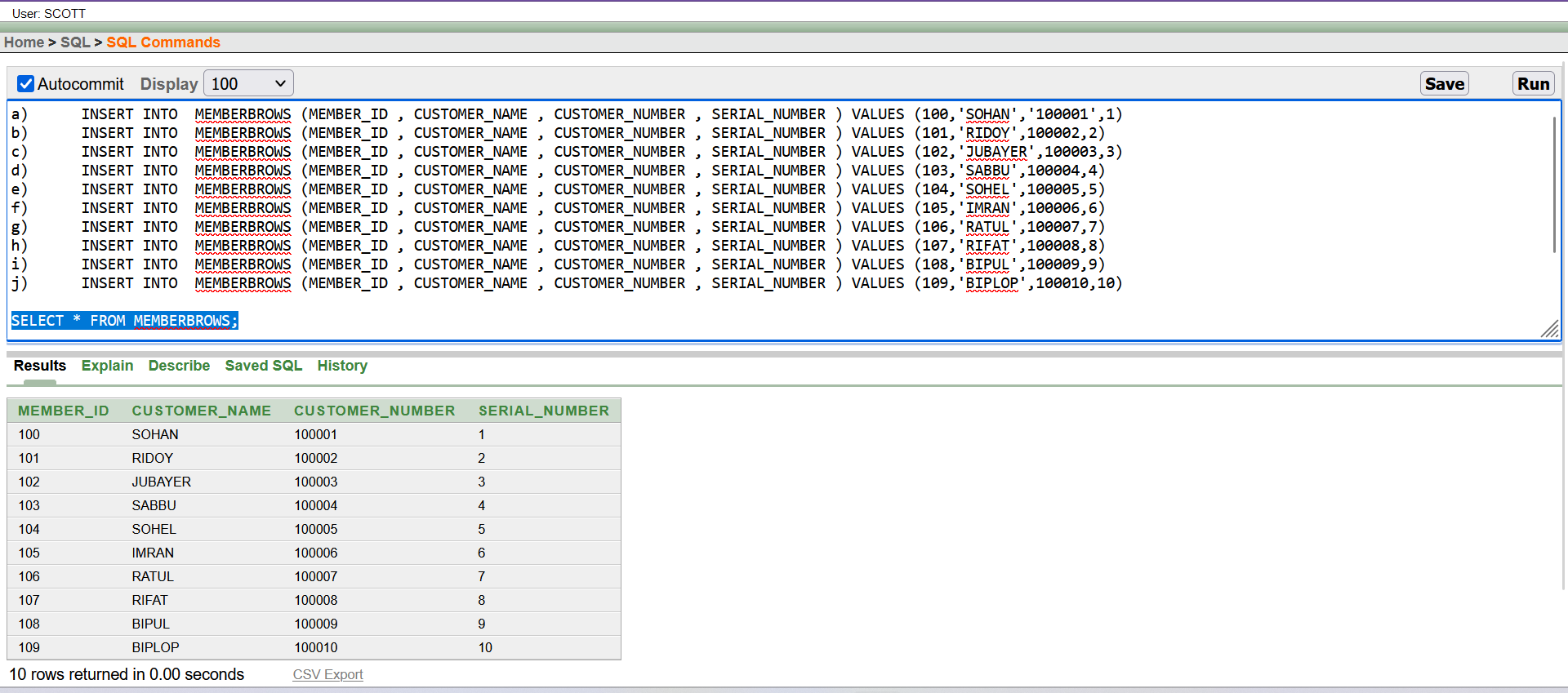
**10 . Member :**

1. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY,DOB) VALUES (101,'NURA ALAM',01790336868,10000,101, 23-JAN-99)
2. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY, DOB) VALUES (102,'AIFF HOSSAIN',01790336868,10008,106, 03-JUL-01)
3. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY, DOB) VALUES (103,'MAHENDRA BAHUBALI',01790336868,10009,105, 12-FEB-02)
4. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY, DOB) VALUES (104,'KATTAPA CHOWDHURY',01790336868,10001,109, 01-DEC-71)
5. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY) VALUES (105,'TAMIM IQBAL',01790336868,10002,101)
6. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY, DOB) VALUES (106,'SHAKIB AL HASAN',01790336868,10003,100, 25-SEP-89)
7. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY, DOB) VALUES (107,'ANAMUL HAQUE BIJOY',01790336868,10004,104, 13-NOV-61)
8. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY, DOB) VALUES (108,'NASUM AHAMD',01790336868,10005,108, 07-OCT-09)
9. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY) VALUES (109,'LITON DAS',01790336868,10006,109)
10. INSERT INTO MEMBER(MEMBER\_ID,CUSTOMER\_NAME,CUSTOMER\_NUMBER,BILL\_NUMBER,PAYED\_BY, DOB) VALUES (100,'LORD SHANTO',01790336868,10007,101, 09-JAN-99)



**11. MemberBrows :**

1. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (100,'SOHAN','100001',1)
2. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (101,'RIDOY',100002,2)
3. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (102,'JUBAYER',100003,3)
4. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (103,'SABBU',100004,4)
5. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (104,'SOHEL',100005,5)
6. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (105,'IMRAN',100006,6)
7. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (106,'RATUL',100007,7)
8. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (107,'RIFAT',100008,8)
9. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (108,'BIPUL',100009,9)
10. INSERT INTO MEMBERBROWS (MEMBER\_ID , CUSTOMER\_NAME , CUSTOMER\_NUMBER , SERIAL\_NUMBER ) VALUES (109,'BIPLOP',100010,10)



**12. Service :**

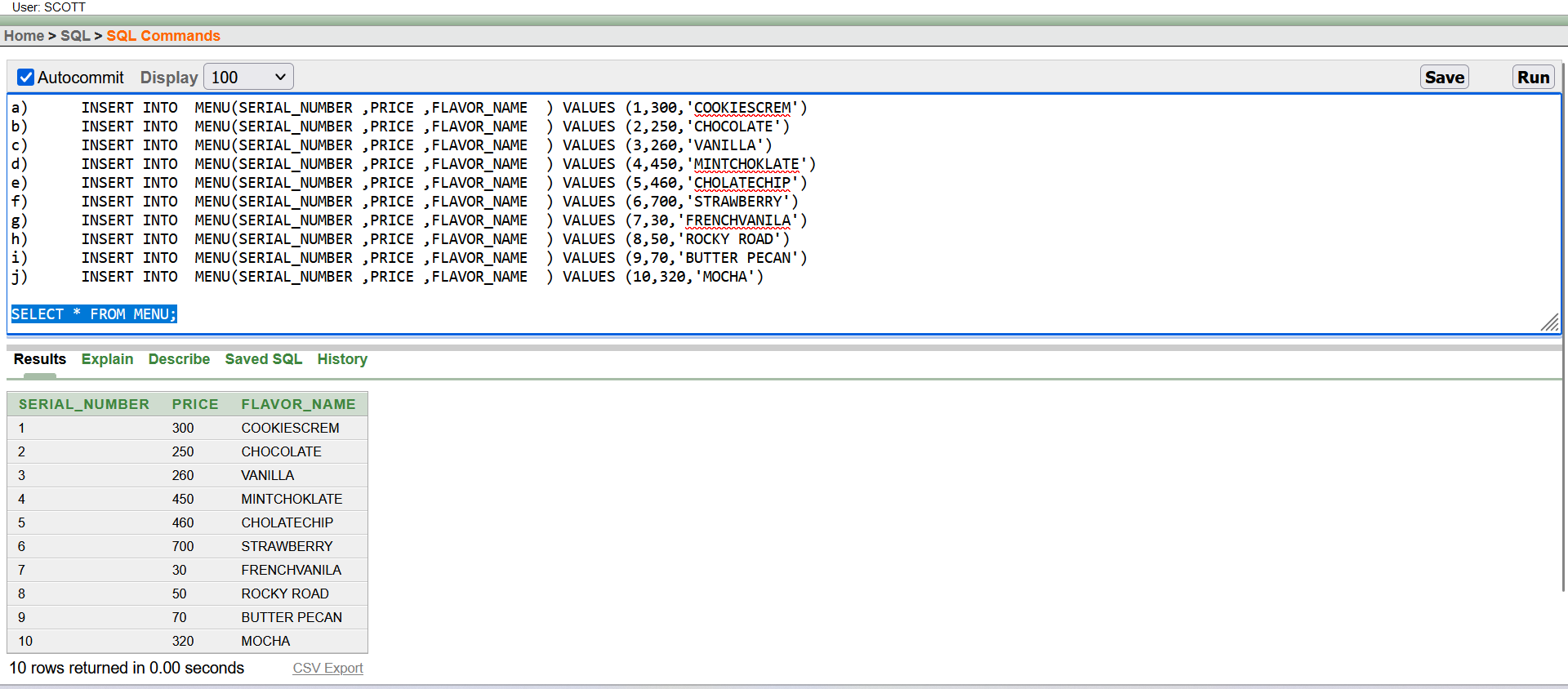
1. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (30,'10-45801-1',100)
2. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (31,'11-45804-4',101)
3. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (32,'12-45807-7',102)
4. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (33,'13-5810-10',103)
5. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (34,'14-45813-1',104)
6. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (35,'15-45816-4',105)
7. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (36,'11-45806-6',106)
8. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (37,'12-45809-9',107)
9. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (38,'10-45802-2',108)
10. INSERT INTO SERVICE(EM\_ID , EMPLOYEE\_ID , MEMBER\_ID ) VALUES (39,'10-45803-3',109)

Graphical user interface, text, application, email

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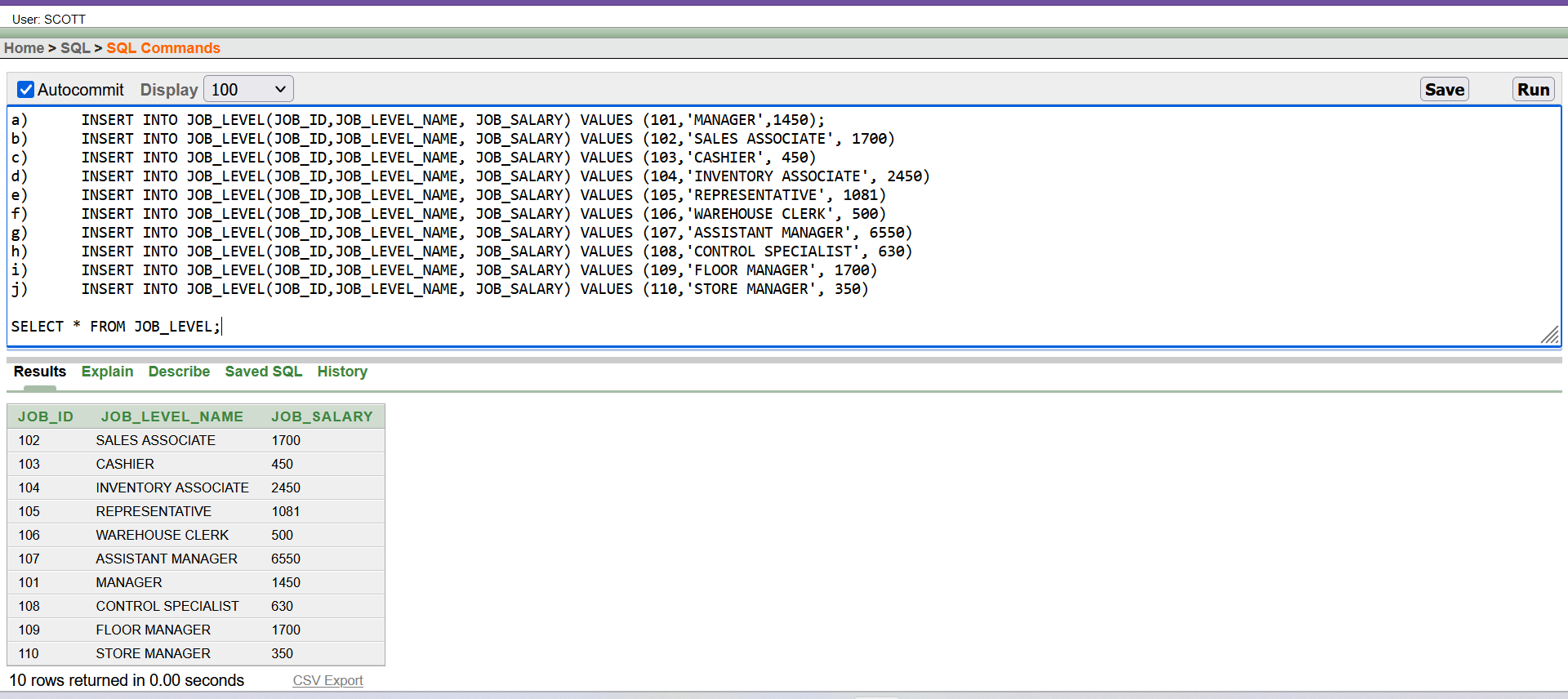
**13. Menu :**

1. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (1,300,'COOKIESCREM')
2. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (2,250,'CHOCOLATE')
3. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (3,260,'VANILLA')
4. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (4,450,'MINTCHOKLATE')
5. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (5,460,'CHOLATECHIP')
6. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (6,700,'STRAWBERRY')
7. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (7,30,'FRENCHVANILA')
8. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (8,50,'ROCKY ROAD')
9. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (9,70,'BUTTER PECAN')
10. INSERT INTO MENU(SERIAL\_NUMBER ,PRICE ,FLAVOR\_NAME ) VALUES (10,320,'MOCHA')



**14. Job\_level**

1. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (101,'MANAGER',1450)
2. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (102,'SALES ASSOCIATE', 1700)
3. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (103,'CASHIER', 450)
4. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (104,'INVENTORY ASSOCIATE', 2450)
5. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (105,'REPRESENTATIVE', 1081)
6. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (106,'WAREHOUSE CLERK', 500)
7. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (107,'ASSISTANT MANAGER', 6550)
8. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (108,'CONTROL SPECIALIST', 630)
9. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (109,'FLOOR MANAGER', 1700)
10. INSERT INTO JOB\_LEVEL(JOB\_ID,JOB\_LEVEL\_NAME, JOB\_SALARY) VALUES (110,'STORE MANAGER', 350)



QUERY WRITING :

1. **JONNING** 
   * 1. **EQUIJOIN:** 
        1. Display employee\_id, employee\_name, salary , trend\_licenseand and shop name for employee

Ans :

SELECT E.EMPLOYEE\_ID, E.EMPLOYEE\_NAME, E.EMPLOYEE\_SALARY,S.SHOP\_NAME,S.TREND\_LICENSE FROM EMPLOYEE E,SHOP S WHERE E.TREND\_LICENSE=S.TREND\_LICENSE

Graphical user interface

Description automatically generated

* + - 1. Display shop\_name, member\_name and employee\_name who serve customer.

Ans :

SELECT S.SHOP\_NAME,M.CUSTOMER\_NAME,E.EMPLOYEE\_NAME FROM SHOP S,MEMBER M,EMPLOYEE E,SERVICE S WHERE E.TREND\_LICENSE=S.TREND\_LICENSE AND E.EMPLOYEE\_ID=S.EMPLOYEE\_ID AND S.MEMBER\_ID=M.MEMBER\_ID

Graphical user interface, application

Description automatically generated

* + 1. **OUTERJOIN**

Display the employee\_name, employee\_id and job\_level\_name for all job\_level.

Ans:

select e.employee\_id, e.employee\_name, e.employee\_salary,j.job\_level\_name from employee e,job\_level j where e.job\_id(+)=j.job\_id



Display employee\_name, owner\_id for whose employee who get order from owners for all employees.

Answer :

select e.employee\_name,r.owner\_id from employee e,owner o,orders r where e.employee\_id=r.employee\_id(+)

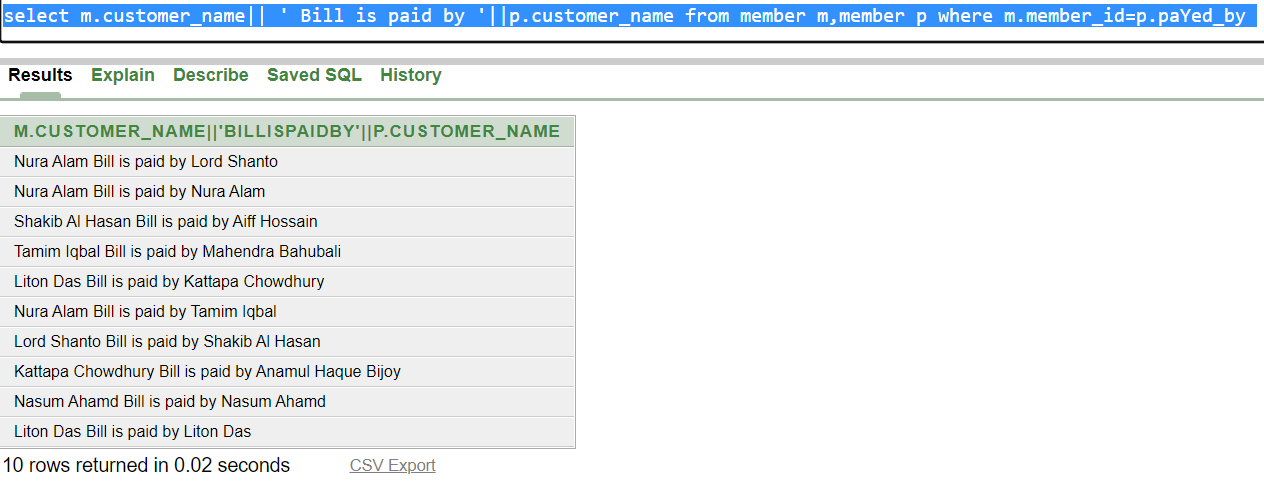
Graphical user interface, application

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* + 1. **Self Join :**

1. Display employee\_name and there manager name .

select e.employee\_name || ' Manager is '|| m.employee\_name from employee e,employee m where e.employee\_id=m.manager\_id



1. Display customer name and Whose name how pay there bill.

Ans :

select m.customer\_name|| ' Bill is paid by '||p.customer\_name from member m,member p where m.member\_id=p.paYed\_by

Graphical user interface, text, application, Word

Description automatically generated

* + 1. **NON EQUIJOIN:**

i) Display Customer\_name and shop name for those custom whose date of birth in greater then the shop established and customer age greater then 24 year.

Ans :

select m.customer\_name,s.shop\_name from member m,shop s where m.dob>s.est\_date AND (SYSDATE - dob) > 8760

Graphical user interface, text, application, email

Description automatically generated

ii) Display employee\_name and there department number who get salary more then average salary from job\_salary and less then maximum salary.

Ans :

select e.employee\_name,j.job\_level\_name from employee e,job\_level j where e.employee\_salary between (select avg(job\_salary) from job\_level) and (select max(job\_salary) from job\_level) and e.job\_id=j.job\_id

Graphical user interface, application, Word

Description automatically generated

2. Sub Query :

i) Display employee name, salary who work in Manager level

Ans :

select employee\_name,employee\_salary from employee where job\_id=(select job\_id from job\_level where job\_level\_name='Manager')

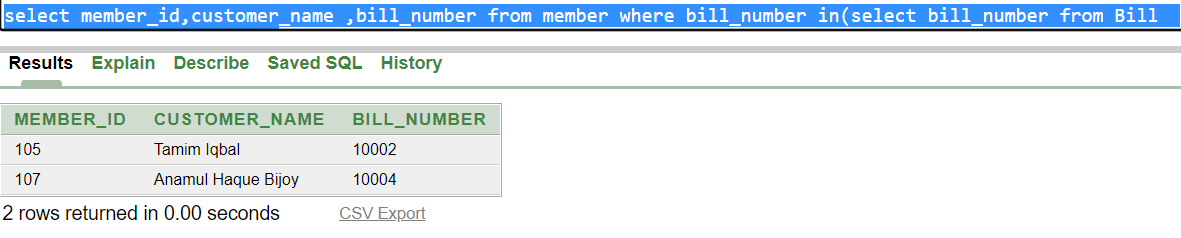
Graphical user interface, text, application, email

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ii) Display Member\_id, member\_name, bill\_number who payed 500 .

Ans :

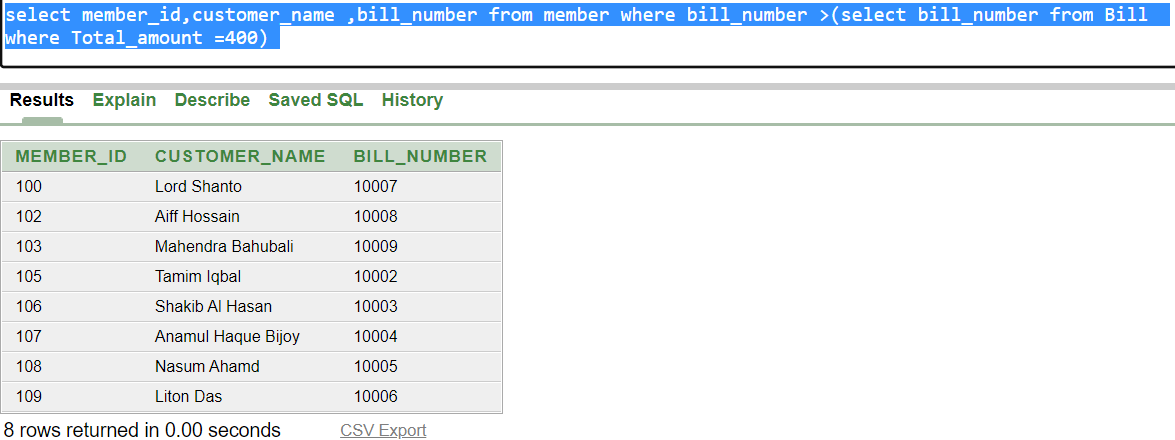
select member\_id,customer\_name ,bill\_number from member where bill\_number in(select bill\_number from Bill where Total\_amount =500)



iii) Display Member\_id, member\_name, bill\_number who payed more then 400.

Ans:

select member\_id,customer\_name ,bill\_number from member where bill\_number >(select bill\_number from Bill where Total\_amount =400)



iv) Display employee\_name,employee\_salary and join\_date for shop which is located in Bananni.

Ans :

select employee\_name,employee\_salary , join\_date from employee where trend\_license=(select trend\_license from shop where location ='Bonanni')

Graphical user interface, text, application, email

Description automatically generated

* + 1. Display employee\_name, join\_date, employee\_salary who check Vanilla flavor on stock.

Ans :

select employee\_name, join\_date, employee\_salary from employee where employee\_id = (select employee\_id from empCheck where flavor\_name='Vanilla')

Graphical user interface, text, application, email

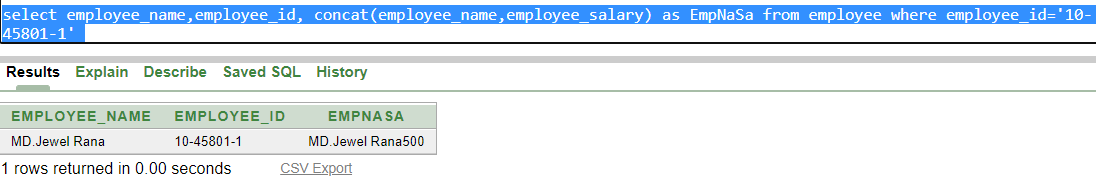
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3.SINGLE ROW FUNCTION :

1. Create a query to display the employee\_name,empolyee id concat employee name and salary whose id=10-45801-1

Ans :

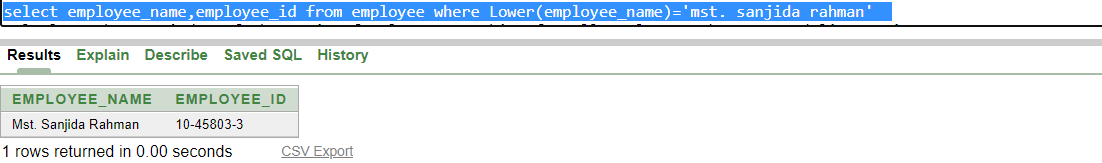
select employee\_name,employee\_id, concat(employee\_name,employee\_salary) as EmpNaSa from employee where employee\_id='10-45801-1'



1. Display the employee id, name, and join date for employee Mst. Sanjida Rahman

Ans :

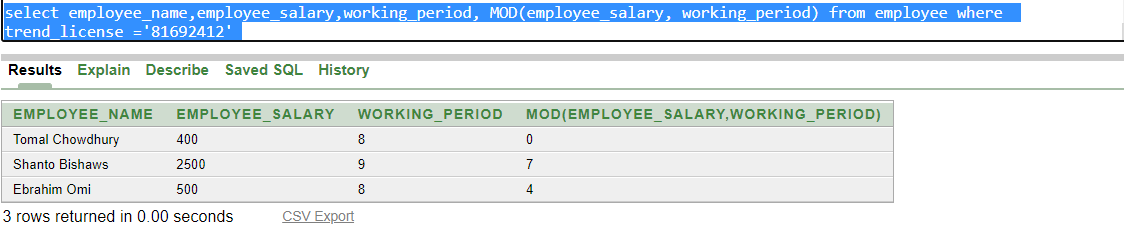
select employee\_name,employee\_id from employee where Lower(employee\_name)='mst. sanjida rahman'



1. Calculate the remainder of the ratio of salary to working for all employees whose treand licence is 81692412

Ans :

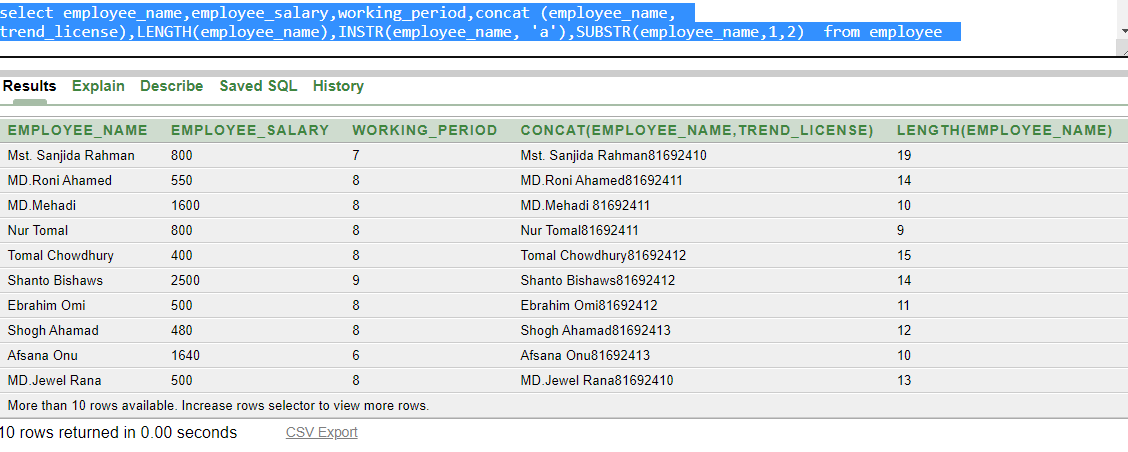
select employee\_name,employee\_salary,working\_period, MOD(employee\_salary, working\_period) from employee where trend\_license ='81692412'



1. display emplyee employee name,salary,working period,Lincense using Character Manipulation Functions

Ans :

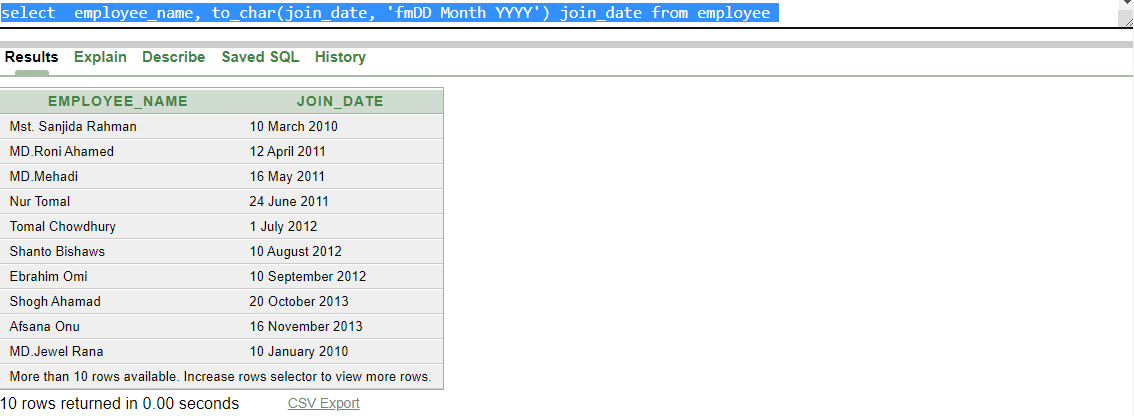
select employee\_name,employee\_salary,working\_period,concat (employee\_name, trend\_license),LENGTH(employee\_name),INSTR(employee\_name, 'a'),SUBSTR(employee\_name,1,2) from employee



1. Display employee name and convert join date to Caracter.

Ans:

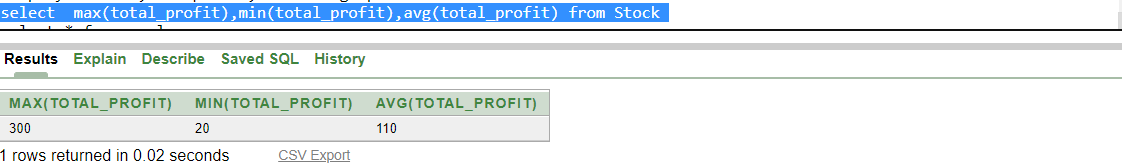
select employee\_name, to\_char(join\_date, 'fmDD Month YYYY') join\_date from employee



4.GROUP FUNCTION :

1. Display the max, min profit,and average profit from Stock

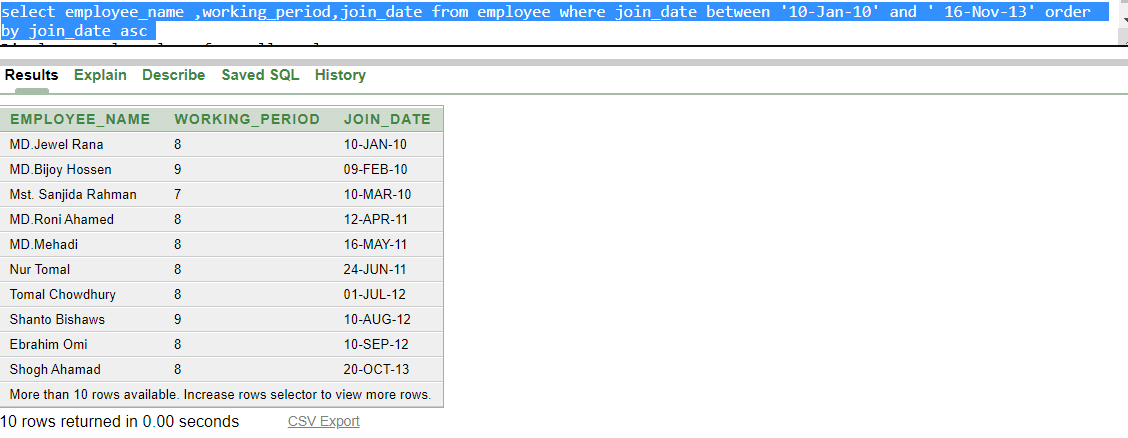
Ans :



1. Display the employee name, working period, and join date of employee join date between JAN 10, 2010, and NOV 16, 2013. Order the query in ascending order by join date.

Ans :

select employee\_name ,working\_period,join\_date from employee where join\_date between '10-Jan-10' and ' 16-Nov-13' order by join\_date asc



1. Display yearly salary from all employee

Ans :

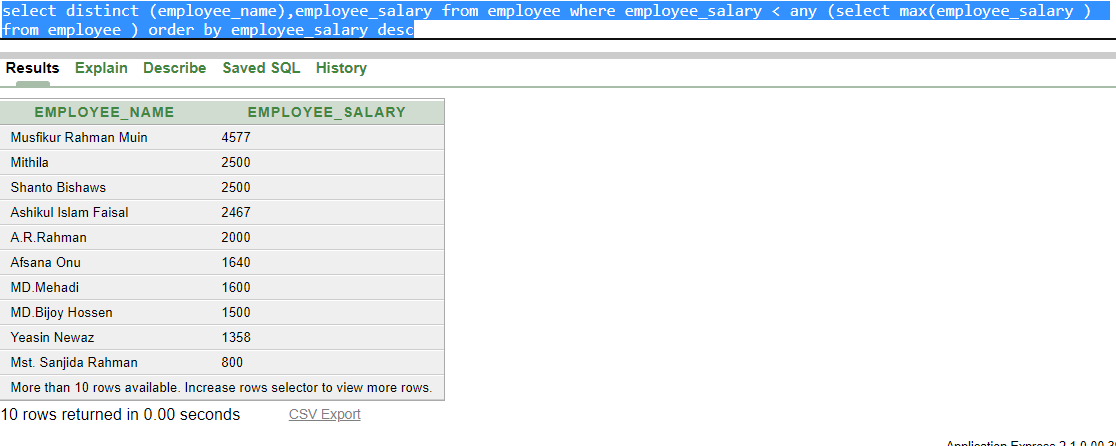
select sum(12\*employee\_salary) from employee



4. dispaly the quary to show the name, salary in descending order who earn lass than maximum salary.

Ans :

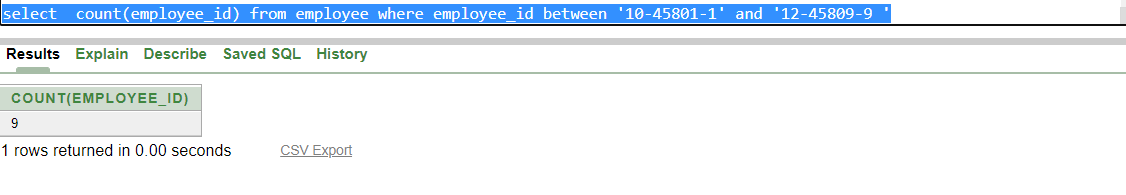
select distinct (employee\_name),employee\_salary from employee where employee\_salary < any (select max(employee\_salary ) from employee ) order by employee\_salary desc



1. Display employee id how many row between employee id 10-45801-1 and 12-45809-9.

Ans :

select count(employee\_id) from employee where employee\_id between '10-45801-1' and '12-45809-9 '



**5. VIEW :**

create or replace view empView as select employee\_id,employee\_name,employee\_salary from employee where employee\_salary > (select avg(employee\_salary ) from employee)

Graphical user interface, application

Description automatically generated

Display all information of EmpView View.

Graphical user interface

Description automatically generated with medium confidence

Inset value in view

1. insert into empView values ('15-45818-7','A.R.Rahman',2000)
2. insert into empView values ('15-45819-8','Tahsan Khan',5000)
3. insert into empView values ('15-45820-9','Mithila ',2500)

Table

Description automatically generated

**6. Sequence :**

Create Sequence member\_sequence

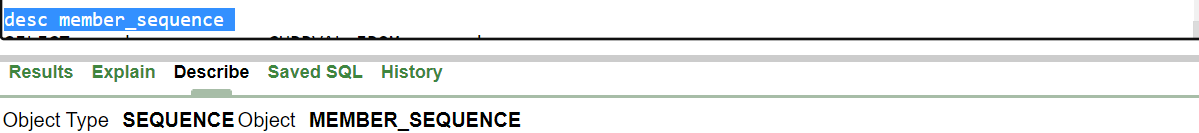
INCREMENT BY 1

START WITH 110

MAXVALUE 1000

NOCACHE

NOCYCLE



Data Insert by using Sequence

Graphical user interface, application, Word

Description automatically generated

7. GENERAL QUERY :

1. Display all information about employee whose name have latest one a and job\_level\_name is not Manager.

Ans :

select \* from employee where employee\_name like '%m%' and job\_id <> (select job\_id from job\_level where job\_level\_name='Manager')

Table

Description automatically generated

2. Display customer\_name,member\_id and total bill who paid more then average bill and less then maximum bill.

Ans :

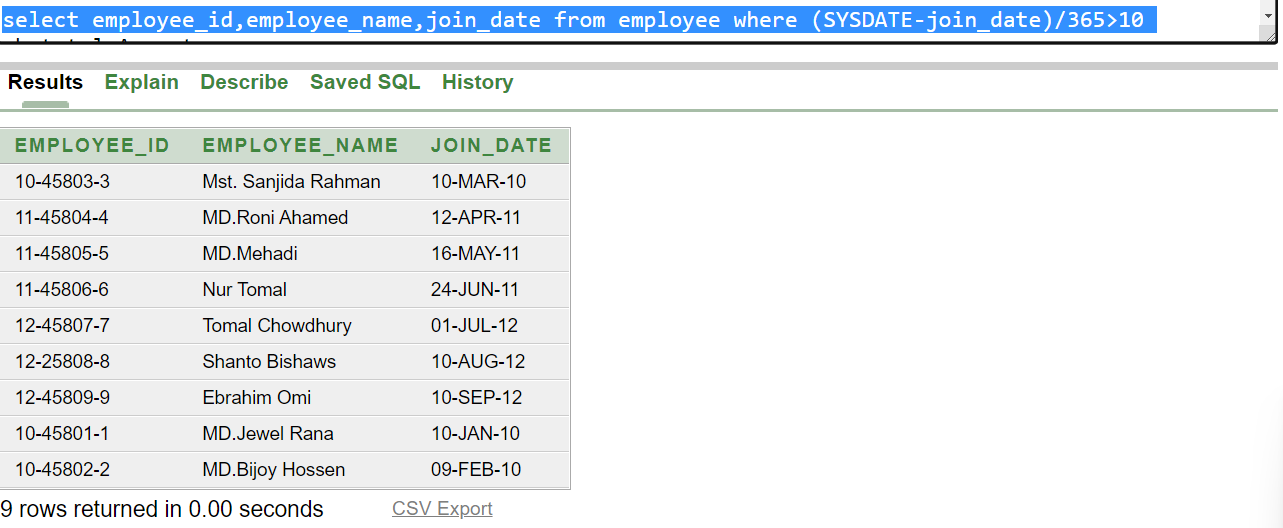
select distinct(m.member\_id), m.customer\_name,b.total\_Amount from member m,bill b where m.bill\_number in(select bill\_number from bill where total\_Amount > (select avg(total\_Amount ) from Bill ) and total\_Amount <(select max(total\_Amount ) from Bill) ) and m.bill\_number=b.bill\_number.

Graphical user interface, text, application, email

Description automatically generated

3. Display employee name ,employee id , joining date who work for shop at least 5 year.

Ans : select employee\_id,employee\_name,join\_date from employee where (sysdate-join\_date)/365>10



1. Display member\_id, customer\_name, dob who born after the member whose name start with L.

Ans :

select member\_id,customer\_name,dob from member where dob > any (select dob from member where customer\_name like 'L%')

Graphical user interface, text, application, email

Description automatically generated

1. Display shop\_name, owner\_name, owner\_id of a shop.

Ans:

select s.shop\_name,o.owner\_id,o.owner\_name from shop s,owner o where o.trend\_License=s.trend\_License

