GYM MANAGEMENT SYSTEM

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COURSE NAME: INTRODUCTION TO DATA BASE

SECTION: I

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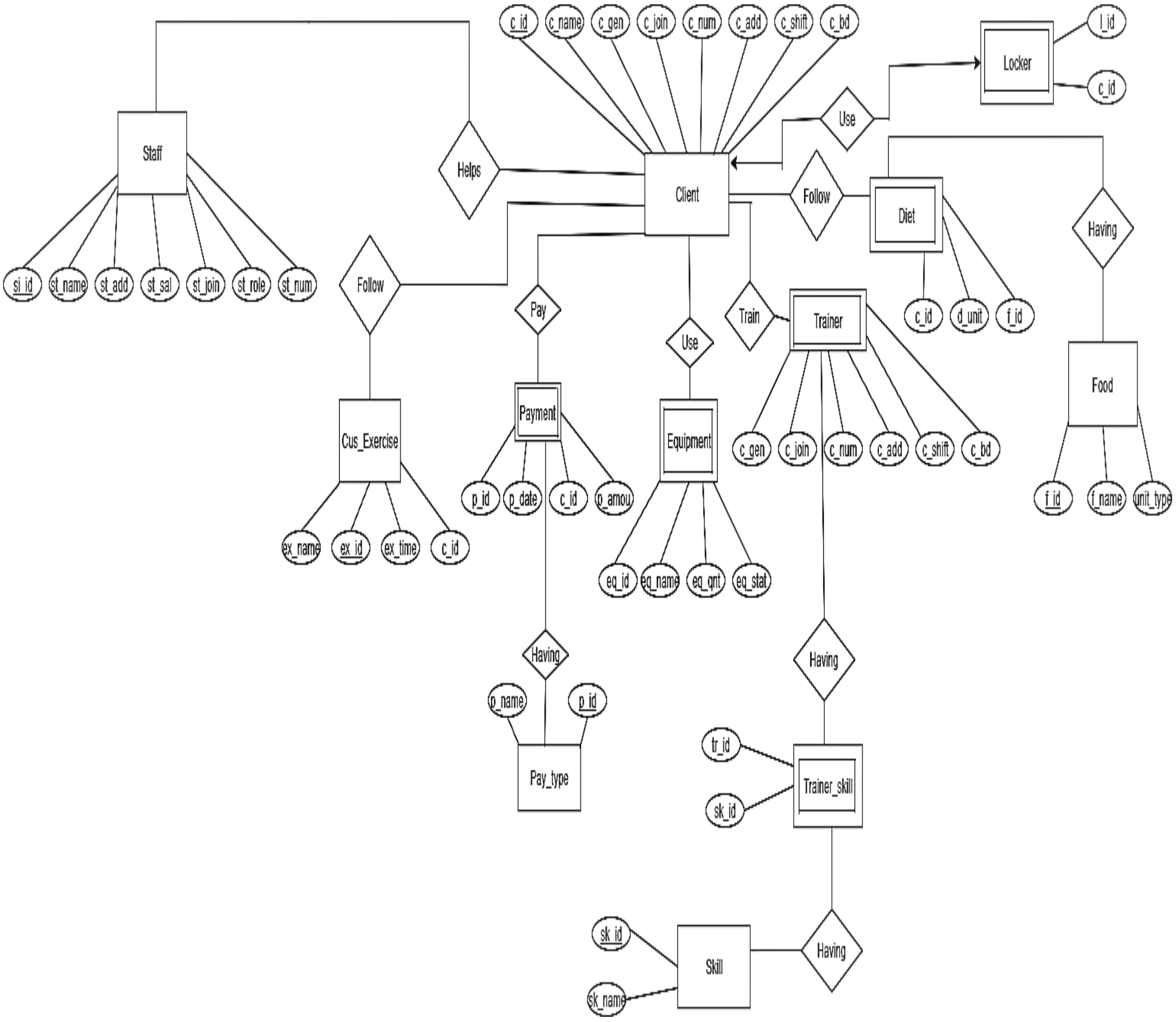
Introduction:

Our project is about a gym management system. We know in a gym there are various kinds of data that is need to keep safe. If we use a digital system for that then it will be very efficient. We know in a normal gym there are gym customer, staff, instrument etc. are exist. So in our data base we will keep the information about them. Additionally we will save the data about income and expense. So at last we hope that it will help a gym to maintain its activity efficiently.

Scenario Description:

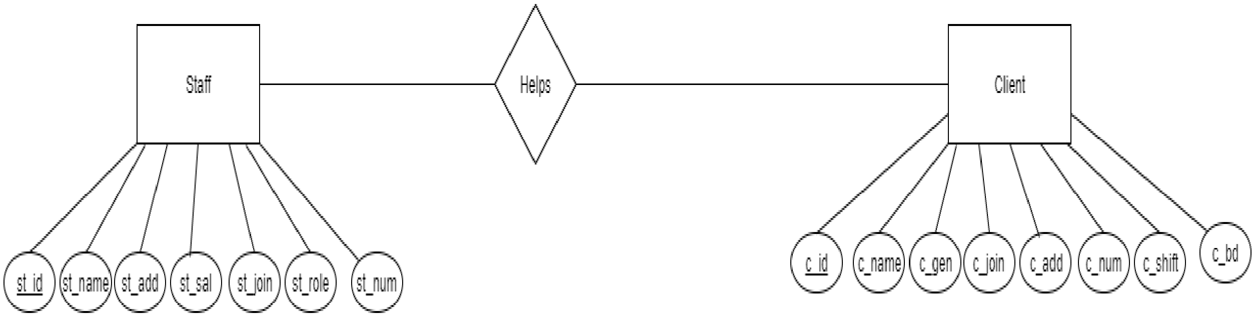
In our data base system we will work about the client, equipment, staffs, trainers, locker, food chart, payment and skill of that trainer. In the client section there are name, gender, joining date, shift, mobile number, birthday and a unique client id. In the staff section there are also staff name, address, salary, joining date, staff role, mobile number and a unique staff id. In the equipment section there are equipment name, equipment quantity, status and a unique equipment id. A client can use more than one equipment and an equipment can be used by more than one client. In the payment section there are payment is, date, amount and the customer id as a foreign key. In payment type there are payment name and a unique payment id. Payment can be paid by BKASH, CASH and CREDIT CARD. The unique payment id will be used as a foreign key in the Payment table. In the Customer exercise table have exercise name, time and a unique exercise id. The client id is the foreign key in this table. In the trainer section there are trainer name, mobile number, and address, joining date, shift and a unique trainer id. There are a Trainer skill table related to trainer table. A trainer can have more than one skill so in the table there will be trainer id and skill id. There will also be a skill table where skill name and a unique skill id will be available. In a quality gym locker system is important. In our data base there are a section for locker system which is containing locker id and client id. Locker table is related with client table and the client id is will be used as foreign key. A locker can be used by only one client. Diet routine is very important for the gym client so we keep a diet table in our data base. In the diet table there are three attributes which are diet id, unit and the client id is the foreign key. Food table is related with diet table which is containing food name, unit type and a unique food id. A staff or a trainer can help more than one client and a client can get help from more than one staff or trainer.

ER Diagram:


c_id
c_name
c_gen
c_join
c_num
c_add
c_shift
c_bd
l_id
Locker
c_id
Use
Staff
Helps
Client
Follow
Diet
Having
si_id
st_name
st_add
st_sal
st_join
st_role
st_num
Follow
Pay
Train
Trainer
c_id
d_unit
f_id
Use
Food
Payment
Cus_Exercise
Equipment
c_gen
c_join
c_num
c_add
c_shift
c_bd
p_id
p_date
c_id
p_amou
f_id
f_name
unit_type
ex_name
ex_id
ex_time
c_id
eq_id
eq_name
eq_qnt
eq_stat
Having
Having
p_name
p_id
tr_id
Pay_type
Trainer_skill
sk_id
sk_id
Skill
Having
sk_name

Normalization:

The Normalization have been done below from 1NF to 3NF.



1NF

Helps (c_id, c_name, c_gen, c_join, c_add, c_num, c_shift, c_bd, st_id, st_name, st_add, st_sal, st_join, st_role, st_num)

2NF

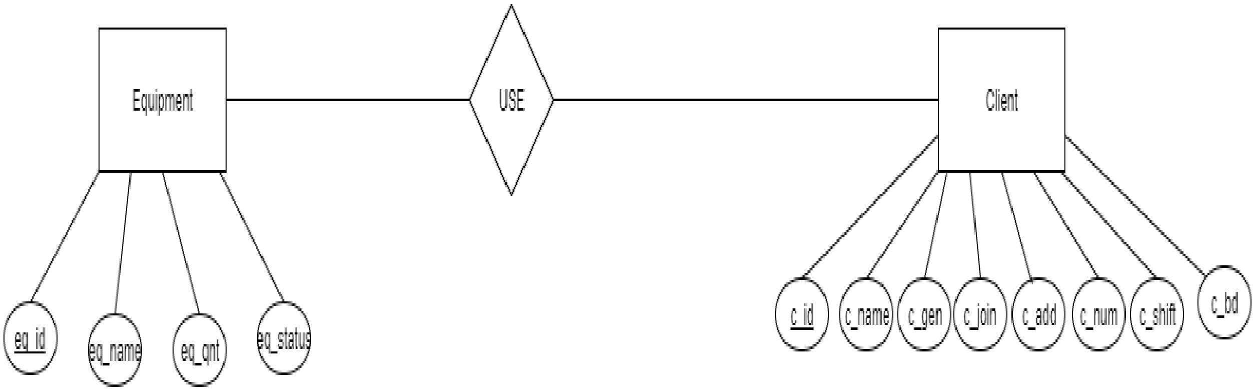
(c_id, c_name, c_gen, c_join, c_add, c_num, c_shift, c_bd)

(st_id, st_name, st_add, st_sal, st_join, st_role, st_num)

(c_id, st_id)

3NF

Already in 2NF



1NF

Use (c_id, c_name, c_gen, c_join, c_add, c_num, c_shift, c_bd, eq_id, eq_name, eq_qnt, eq_status)

2NF

(c_id, c_name, c_gen, c_join, c_add, c_num, c_shift, c_bd)

(eq_id, eq_name, eq_qnt, eq_status)

(c_id, eq_id)

3NF

Already in 2NF

Final Normalization:

#1NF:

Client (c_id, c_name, c_gender, c_join, c_num, c-add, c_shift, c_bd)

Staff (st_id, st_name, st_add, st_salary, st_join, st_role, st_num)

Trainer (t_id, t_name, t_num, t_add, t_join, t_shift)

#2NF:

Client (c_id, c_name, c_gender, c_join, c_num, c-add, c_shift, c_bd)

Staff (st_id, st_name, st_add, st_salary, st_join, st_role, st_num)

Trainer (t_id, t_name, t_num, t_add, t_join, t_shift)

Payment (p_id, p_date, c_id, p_amount)

Cus_Exercise (ex_id, ex_name, cex_time, c_id)

Equipment (eq_id, eq_name, eq_qnt, eq_status)

Trainer_skill (tr_id, sk_id)

Diet (c_id, d_unit, d_id)

#3NF:

Client (c_id, c_name ,c_gender, c_join, c_num, c-add, c_shift, c_bd)

Staff (st_id, st_name, st_add, st_salary, st_join, st_role, st_num)

Trainer (t_id, t_name, t_num, t_add, t_join, t_shift)

Payment (p_id, p_date, c_id, p_amount)

Payment_type (p_id, p_name)

Cus_exer (ex_id, ex_time, ex__name, c_id)

Equipment (eq_id, eq_name, eq_qnt, eq_status)

Trainer_skill (tr_id, sk_id)

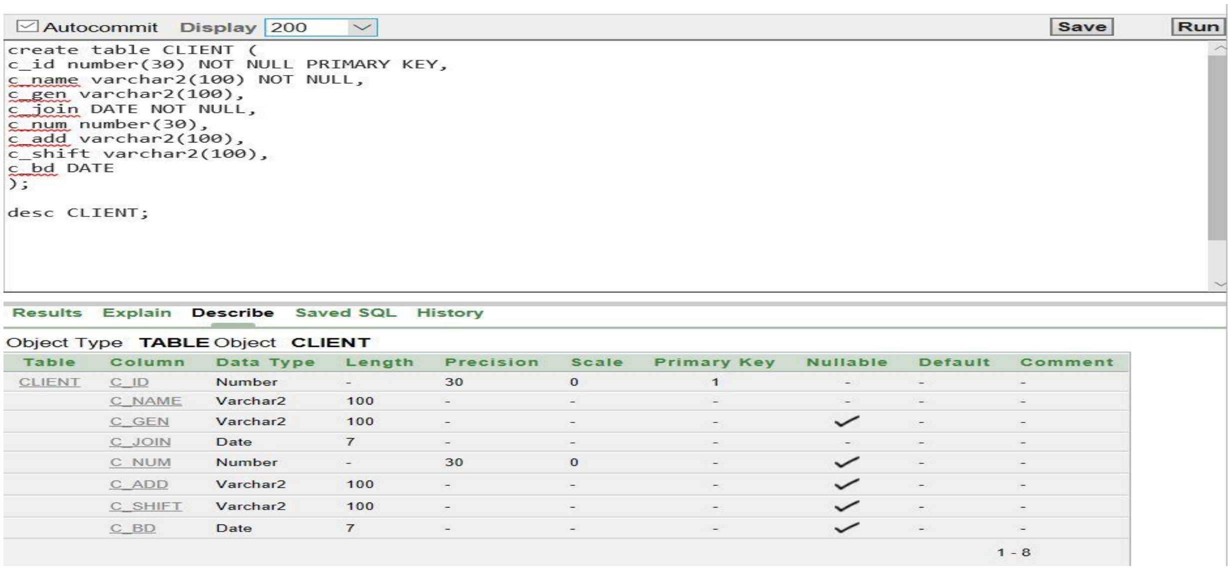
Diet (c_id, d_unit, d_id)

Skill (sk_id, sk_name)
Locker (l_id, c_id)
Food (f_id, f_name, unit_type)

Table Creation

Here the screen shoot of tables for this project.

Client Table:



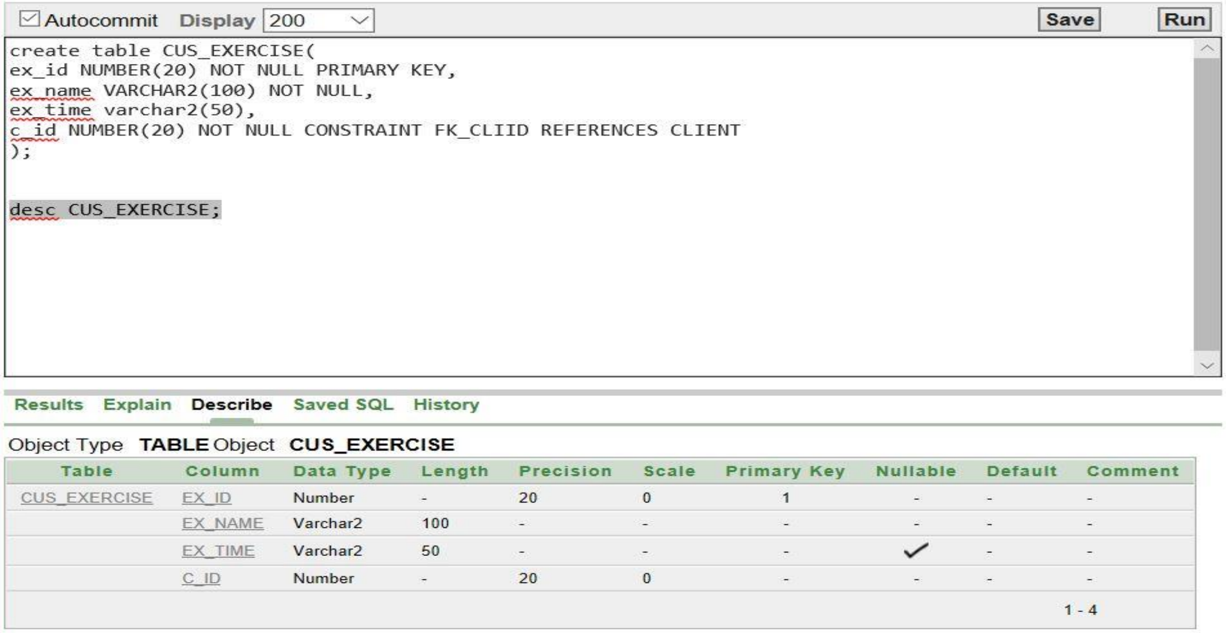
```
create table CLIENT (
c_id number(30) NOT NULL PRIMARY KEY,
c_name varchar2(100) NOT NULL,
c_gen varchar2(100),
c_join DATE NOT NULL,
c_num number(30),
c_add varchar2(100),
c_shift varchar2(100),
c_bd DATE
);

desc CLIENT;
```

Object Type **TABLE** Object **CLIENT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLIENT	C_ID	Number	-	30	0	1	-	-	-
	C_NAME	Varchar2	100	-	-	-	-	-	-
	C_GEN	Varchar2	100	-	-	-	✓	-	-
	C_JOIN	Date	7	-	-	-	-	-	-
	C_NUM	Number	-	30	0	-	✓	-	-
	C_ADD	Varchar2	100	-	-	-	✓	-	-
	C_SHIFT	Varchar2	100	-	-	-	✓	-	-
	C_BD	Date	7	-	-	-	✓	-	-

1 - 8

Cus_Exercise Table:



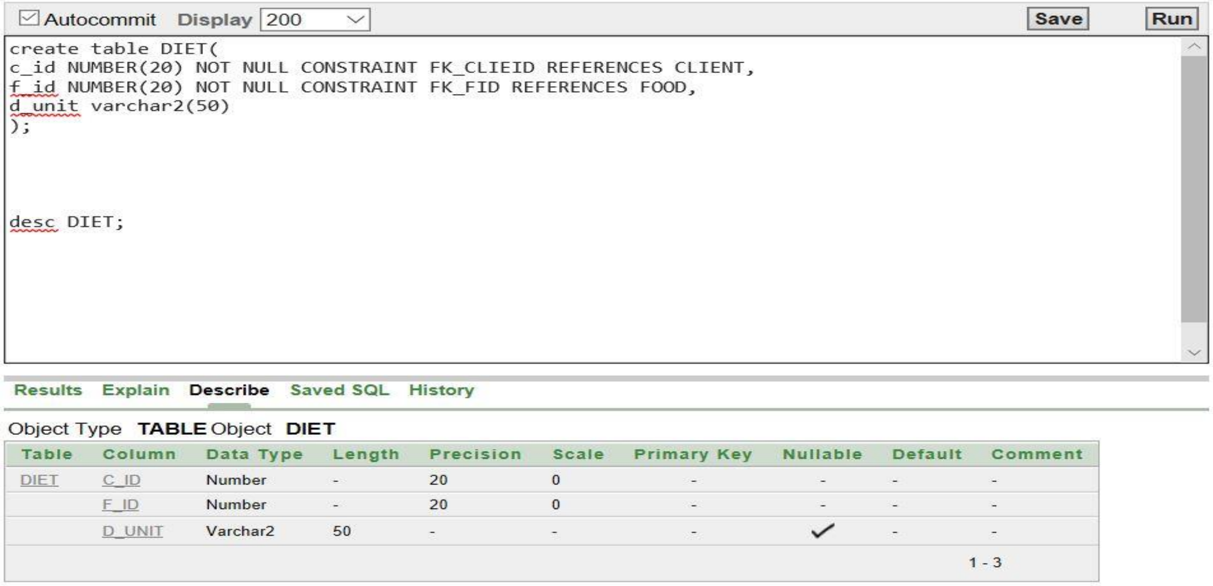
```
create table CUS_EXERCISE(
ex_id NUMBER(20) NOT NULL PRIMARY KEY,
ex_name VARCHAR2(100) NOT NULL,
ex_time varchar2(50),
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CLIID REFERENCES CLIENT
);


desc CUS_EXERCISE;
```

Object Type **TABLE** Object **CUS_EXERCISE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUS_EXERCISE	EX_ID	Number	-	20	0	1	-	-	-
	EX_NAME	Varchar2	100	-	-	-	-	-	-
	EX_TIME	Varchar2	50	-	-	-	✓	-	-
	C_ID	Number	-	20	0	-	-	-	-

1 - 4

Diet Table:



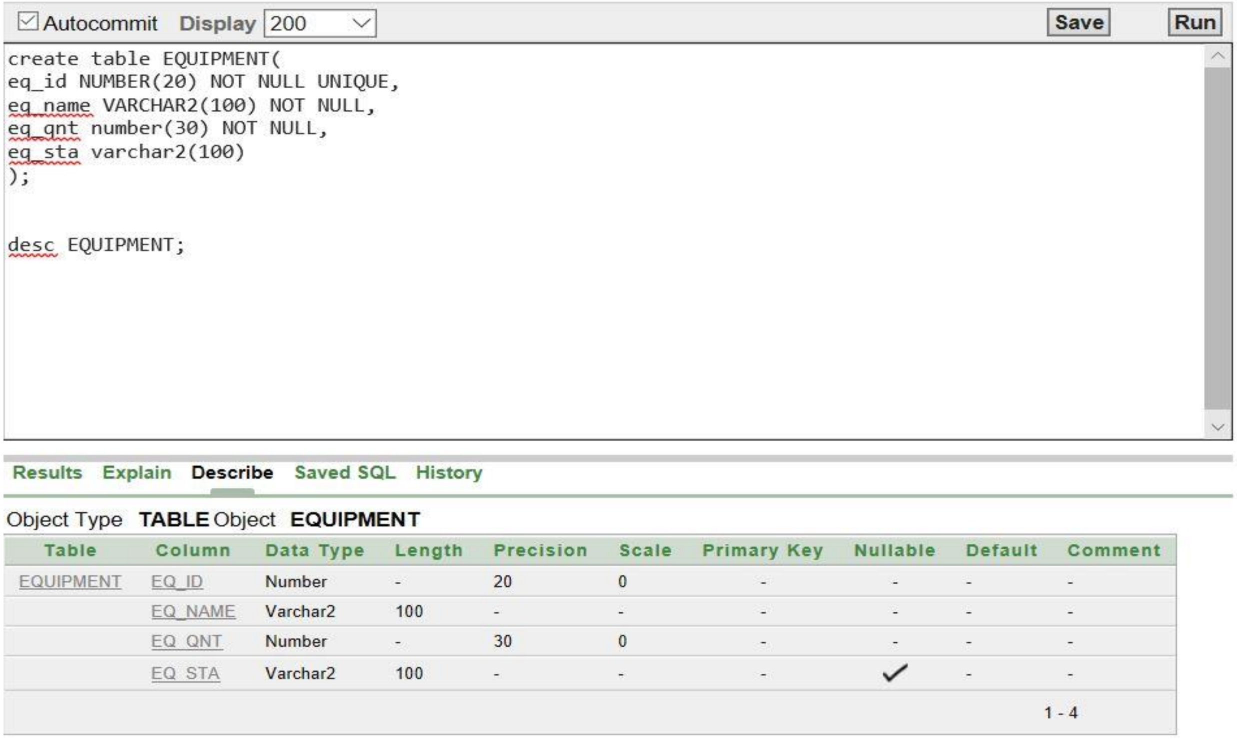
```
create table DIET(
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CLIEID REFERENCES CLIENT,
f_id NUMBER(20) NOT NULL CONSTRAINT FK_FID REFERENCES FOOD,
d_unit varchar2(50)
);



desc DIET;
```

Object Type **TABLE** Object **DIET**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DIET	C_ID	Number	-	20	0	-	-	-	-
	F_ID	Number	-	20	0	-	-	-	-
	D_UNIT	Varchar2	50	-	-	-	✓	-	-

1 - 3

Equipment Table:



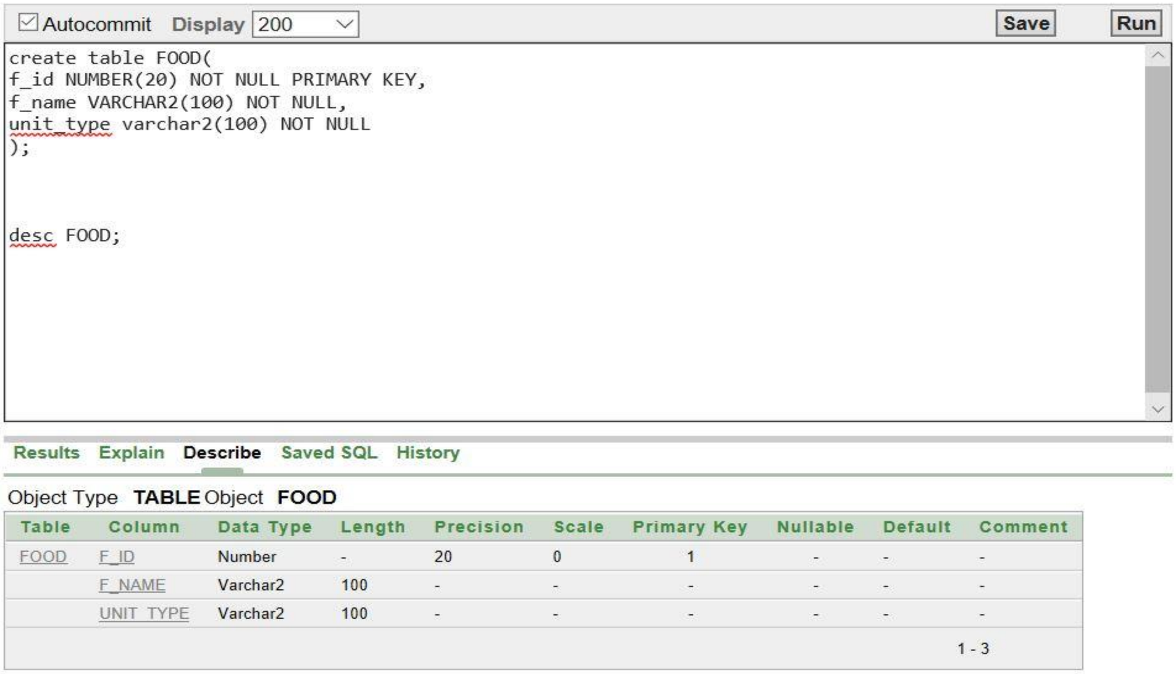
```
create table EQUIPMENT(
eq_id NUMBER(20) NOT NULL UNIQUE,
eq_name VARCHAR2(100) NOT NULL,
eq_qnt number(30) NOT NULL,
eq_sta varchar2(100)
);


desc EQUIPMENT;
```

Object Type **TABLE** Object **EQUIPMENT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EQUIPMENT	EQ_ID	Number	-	20	0	-	-	-	-
	EQ_NAME	Varchar2	100	-	-	-	-	-	-
	EQ_QNT	Number	-	30	0	-	-	-	-
	EQ_STA	Varchar2	100	-	-	-	✓	-	-

1 - 4

Food Table:



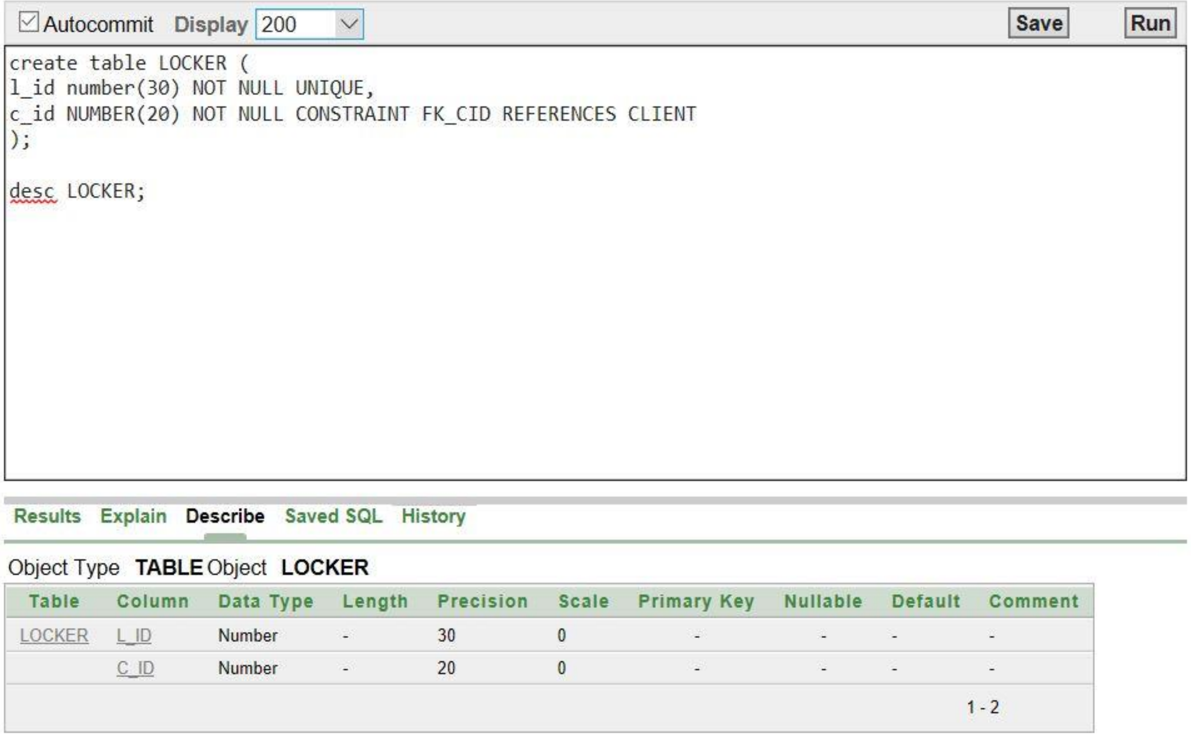
```
create table FOOD(
f_id NUMBER(20) NOT NULL PRIMARY KEY,
f_name VARCHAR2(100) NOT NULL,
unit_type varchar2(100) NOT NULL
);



desc FOOD;
```

Object Type **TABLE** Object **FOOD**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FOOD	F_ID	Number	-	20	0	1	-	-	-
	F_NAME	Varchar2	100	-	-	-	-	-	-
	UNIT_TYPE	Varchar2	100	-	-	-	-	-	-

1 - 3

Locker Table:



☑ Autocommit Display 200

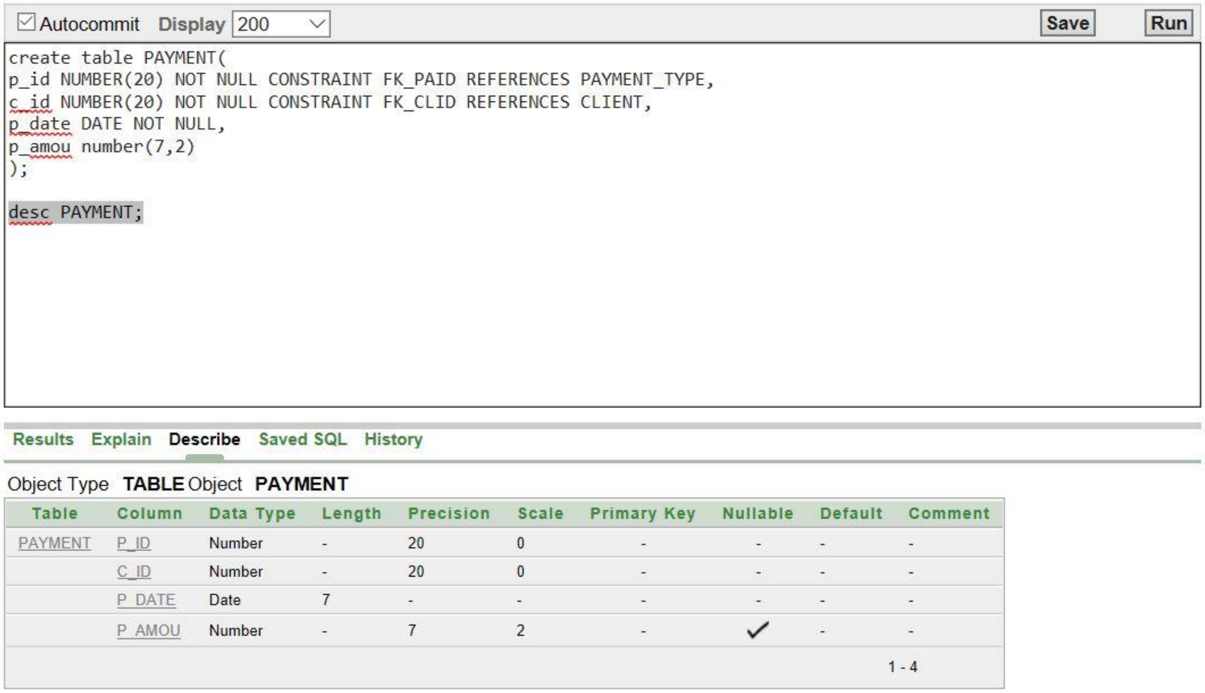
```
create table LOCKER (
l_id number(30) NOT NULL UNIQUE,
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CID REFERENCES CLIENT
);

desc LOCKER;
```

Object Type **TABLE** Object **LOCKER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
LOCKER	L_ID	Number	-	30	0	-	-	-	-
	C_ID	Number	-	20	0	-	-	-	-

1 - 2

Payment Table:



☑ Autocommit Display 200

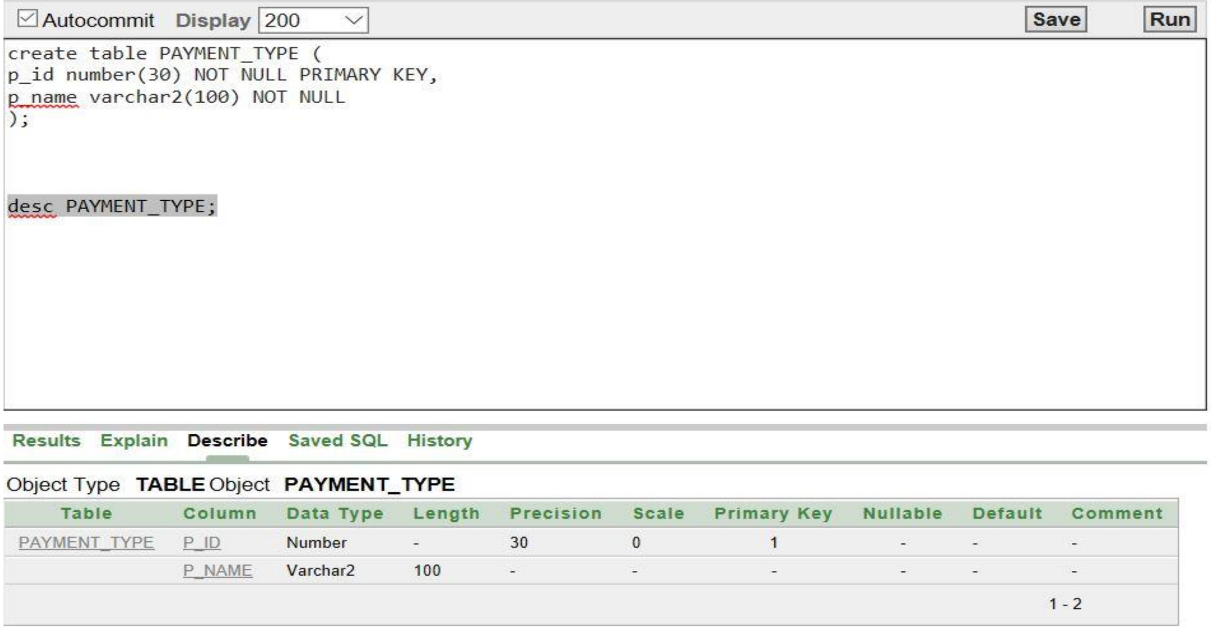
```
create table PAYMENT(
p_id NUMBER(20) NOT NULL CONSTRAINT FK_PAID REFERENCES PAYMENT_TYPE,
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CLID REFERENCES CLIENT,
p_date DATE NOT NULL,
p_amou number(7,2)
);

desc PAYMENT;
```

Object Type **TABLE** Object **PAYMENT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAYMENT	P_ID	Number	-	20	0	-	-	-	-
	C_ID	Number	-	20	0	-	-	-	-
	P_DATE	Date	7	-	-	-	-	-	-
	P_AMOU	Number	-	7	2	-	✓	-	-

1 - 4

Payment_Type Table:



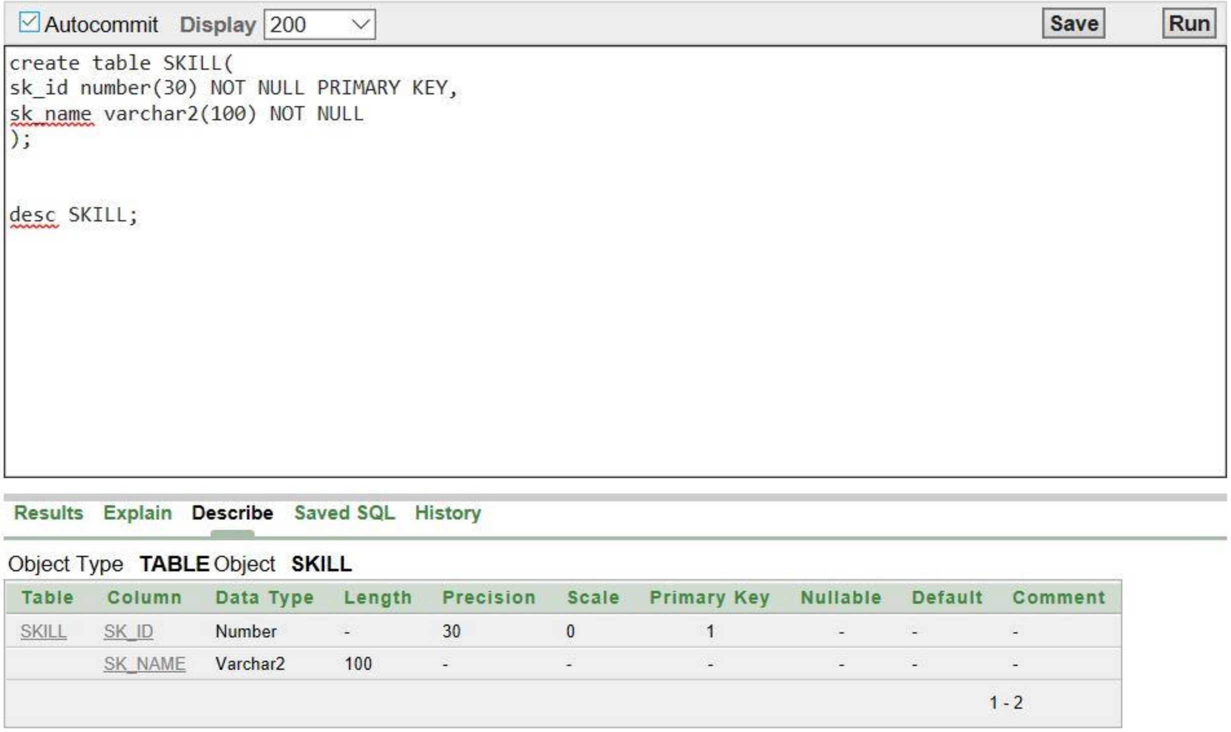
```
create table PAYMENT_TYPE (
p_id number(30) NOT NULL PRIMARY KEY,
p_name varchar2(100) NOT NULL
);



desc PAYMENT_TYPE;
```

Object Type **TABLE** Object **PAYMENT_TYPE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAYMENT_TYPE	P_ID	Number	-	30	0	1	-	-	-
	P_NAME	Varchar2	100	-	-	-	-	-	-

1 - 2

Skill Table:



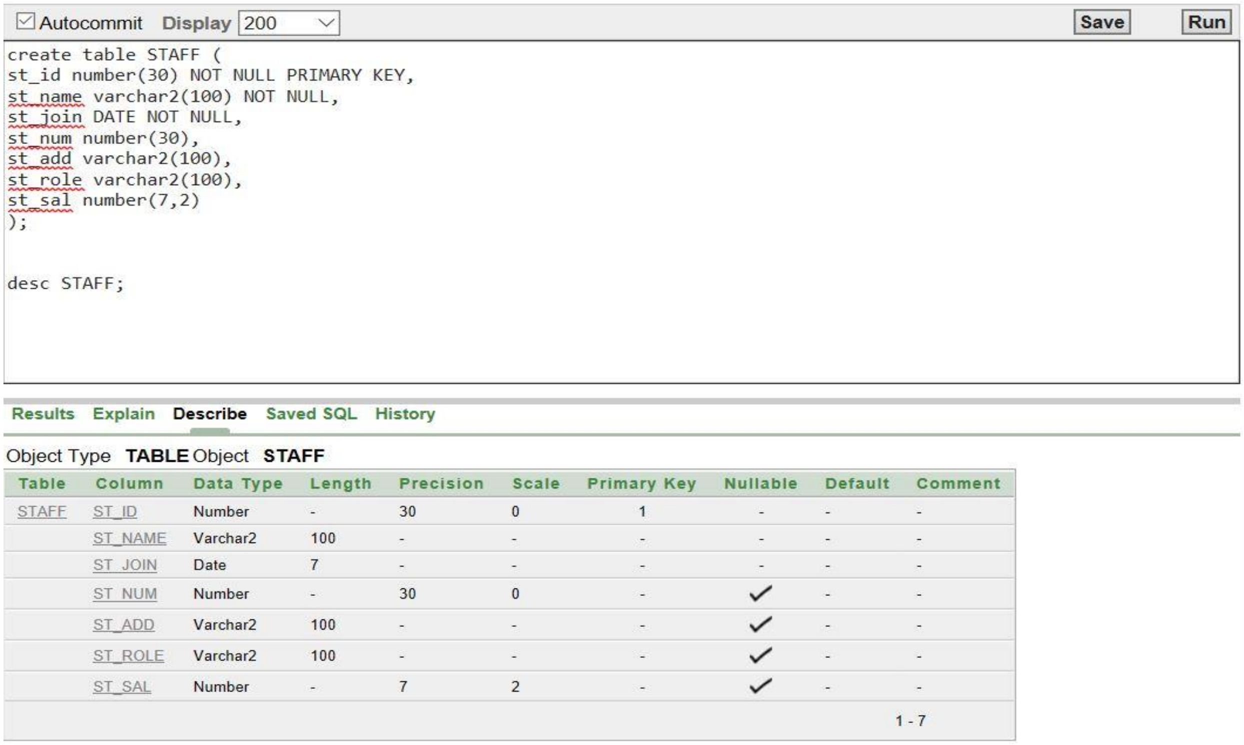
```
create table SKILL(
sk_id number(30) NOT NULL PRIMARY KEY,
sk_name varchar2(100) NOT NULL
);


desc SKILL;
```

Object Type **TABLE** Object **SKILL**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SKILL	SK_ID	Number	-	30	0	1	-	-	-
	SK_NAME	Varchar2	100	-	-	-	-	-	-

1 - 2

Staff Table:



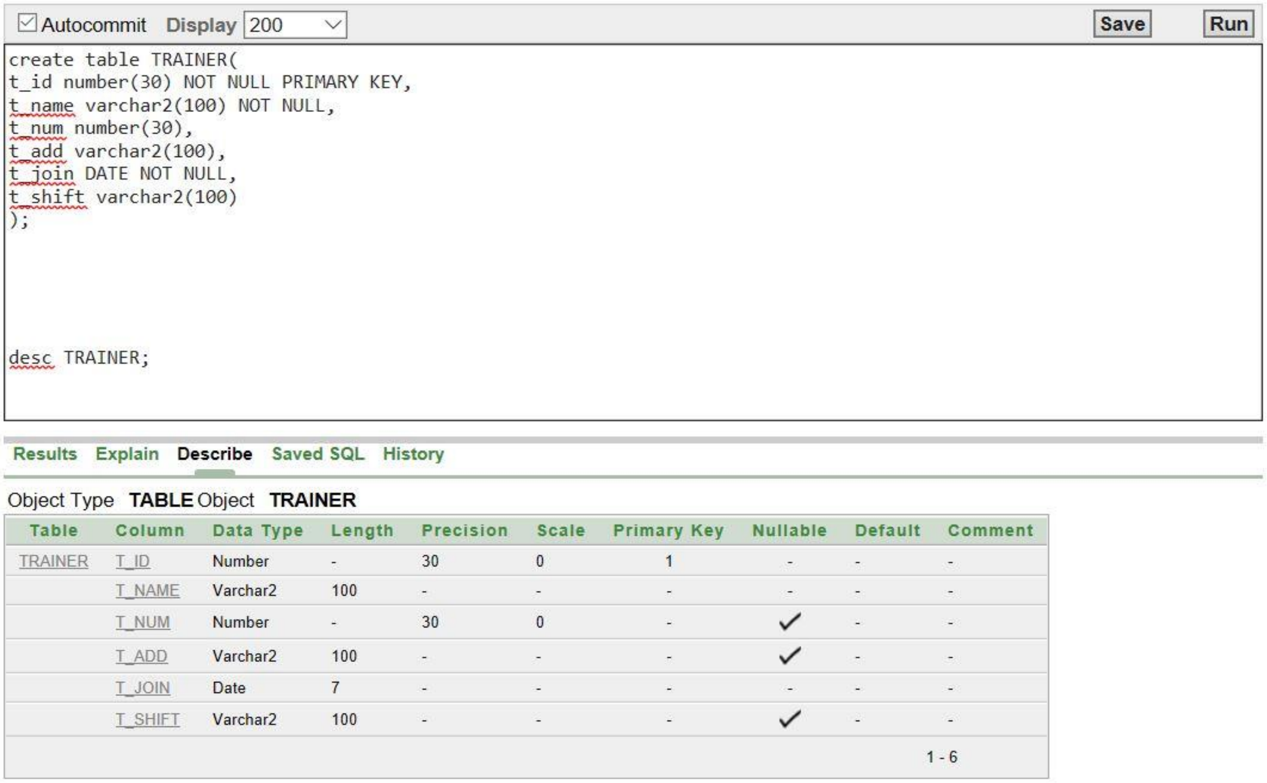
```
create table STAFF (
st_id number(30) NOT NULL PRIMARY KEY,
st_name varchar2(100) NOT NULL,
st_join DATE NOT NULL,
st_num number(30),
st_add varchar2(100),
st_role varchar2(100),
st_sal number(7,2)
);


desc STAFF;
```

Object Type **TABLE** Object **STAFF**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STAFF	ST_ID	Number	-	30	0	1	-	-	-
	ST_NAME	Varchar2	100	-	-	-	-	-	-
	ST_JOIN	Date	7	-	-	-	-	-	-
	ST_NUM	Number	-	30	0	-	✓	-	-
	ST_ADD	Varchar2	100	-	-	-	✓	-	-
	ST_ROLE	Varchar2	100	-	-	-	✓	-	-
	ST_SAL	Number	-	7	2	-	✓	-	-

1 - 7

Trainer Table:



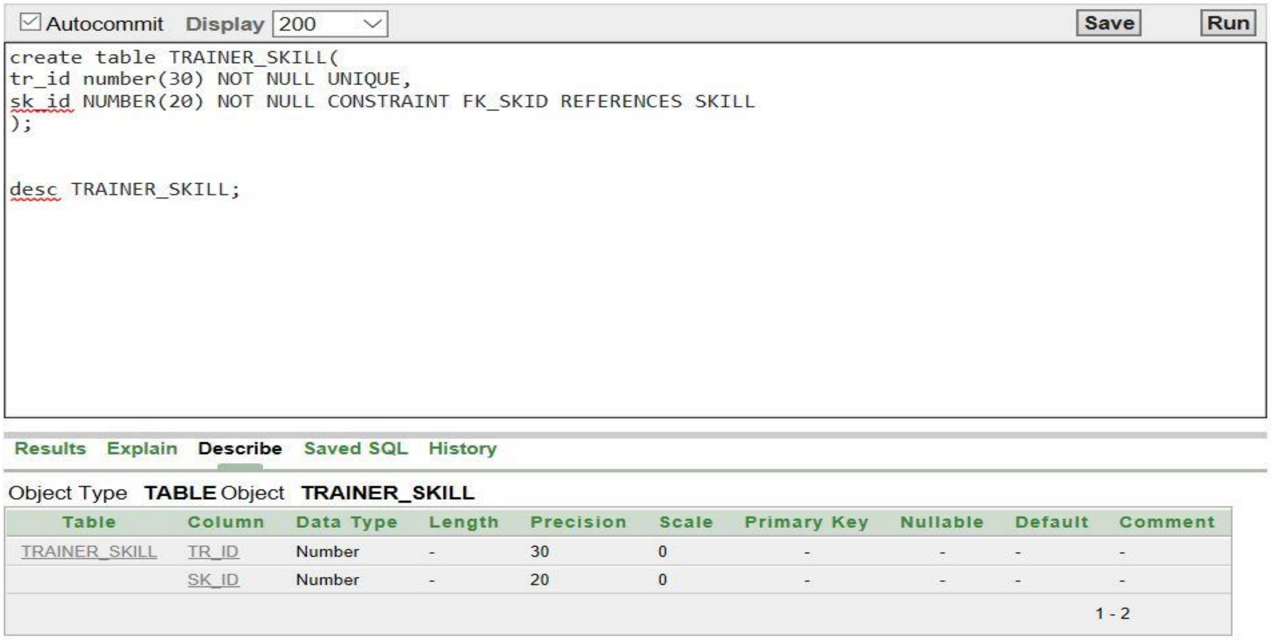
```
create table TRAINER(
t_id number(30) NOT NULL PRIMARY KEY,
t_name varchar2(100) NOT NULL,
t_num number(30),
t_add varchar2(100),
t_join DATE NOT NULL,
t_shift varchar2(100)
);




desc TRAINER;
```

Object Type **TABLE** Object **TRAINER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TRAINER	T_ID	Number	-	30	0	1	-	-	-
	T_NAME	Varchar2	100	-	-	-	-	-	-
	T_NUM	Number	-	30	0	-	✓	-	-
	T_ADD	Varchar2	100	-	-	-	✓	-	-
	T_JOIN	Date	7	-	-	-	-	-	-
	T_SHIFT	Varchar2	100	-	-	-	✓	-	-

1 - 6

Trainer_Skill Table:



```
create table TRAINER_SKILL(
tr_id number(30) NOT NULL UNIQUE,
sk_id NUMBER(20) NOT NULL CONSTRAINT FK_SKID REFERENCES SKILL
);


desc TRAINER_SKILL;
```

Object Type **TABLE** Object **TRAINER_SKILL**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TRAINER_SKILL	TR_ID	Number	-	30	0	-	-	-	-
	SK_ID	Number	-	20	0	-	-	-	-

1 - 2

Here the qureis of those tables:

# CLIENT Table

```
create table CLIENT (
c_id number(30) NOT NULL PRIMARY KEY,
c_name varchar2(100) NOT NULL,
c_gen varchar2(100),
c_join DATE NOT NULL,
c_num number(30),
c_add varchar2(100),
c_shift varchar2(100),
c_bd DATE);
```

# STAFF TABLE

```
create table STAFF (
st_id number(30) NOT NULL PRIMARY KEY,
st_name varchar2(100) NOT NULL,
st_join DATE NOT NULL,
st_num number(30),
st_add varchar2(100),
st_role varchar2(100),
st_sal number(7,2));
```

# LOCKER TABLE

```
create table LOCKER (
l_id number(30) NOT NULL UNIQUE,
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CID REFERENCES CLIENT);
```

#TRAINER TABLE

```
create table TRAINER(
t_id number(30) NOT NULL PRIMARY KEY,
t_name varchar2(100) NOT NULL,
t_num number(30),
t_add varchar2(100),
t_join DATE NOT NULL,
t_shift varchar2(100));
```

#SKILL Table

```
create table SKILL(
sk_id number(30) NOT NULL PRIMARY KEY,
sk_name varchar2(100) NOT NULL);
```

#Trainer_Skill Table

```
create table TRAINER_SKILL(
tr_id number(30) NOT NULL UNIQUE,
sk_id NUMBER(20) NOT NULL CONSTRAINT FK_SKID REFERENCES SKIL);
```

#PAYMENT_TYEP Table

```
create table PAYMENT_TYPE (
p_id number(30) NOT NULL PRIMARY KEY,
p_name varchar2(100) NOT NULL);
```

#PAYMENT Table

```
create table PAYMENT(
p_id NUMBER(20) NOT NULL CONSTRAINT FK_PAID REFERENCES PAYMENT_TYPE,
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CLID REFERENCES CLIENT,
p_date DATE NOT NULL,
p_amou number(7,2) );
```

#EQUIPMENT Table

```
create table EQUIPMENT(
eq_id NUMBER(20) NOT NULL UNIQUE,
eq_name VARCHAR2(100) NOT NULL,
eq_qnt number(30) NOT NULL,
eq_sta varchar2(100) );
```

#CUS_EXERCISE Table

```
create table CUS_EXERCISE(
ex_id NUMBER(20) NOT NULL PRIMARY KEY,
ex_name VARCHAR2(100) NOT NULL,
ex_time varchar2(50),
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CLIID REFERENCES CLIENT);
```

#FOOD Table

```
create table FOOD(
f_id NUMBER(20) NOT NULL PRIMARY KEY,
f_name VARCHAR2(100) NOT NULL,
unit_type varchar2(100) NOT NULL);
```

#DIET Table

create table DIET(

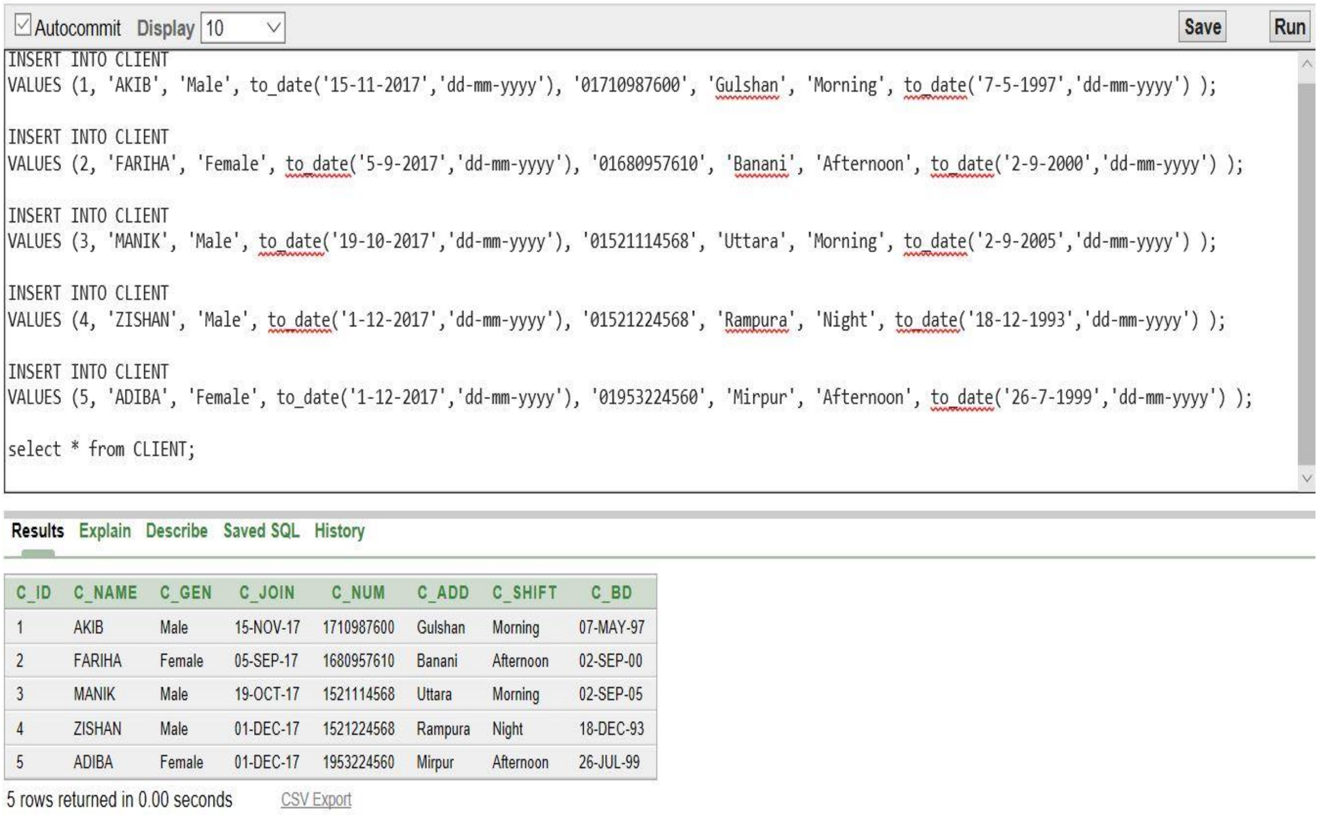
c_id NUMBER(20) NOT NULL CONSTRAINT FK_CLIEID REFERENCES CLIENT,

f_id NUMBER(20) NOT NULL CONSTRAINT FK_FID REFERENCES FOOD,

d_unit varchar2(50));

Data Insertion

Client Table:

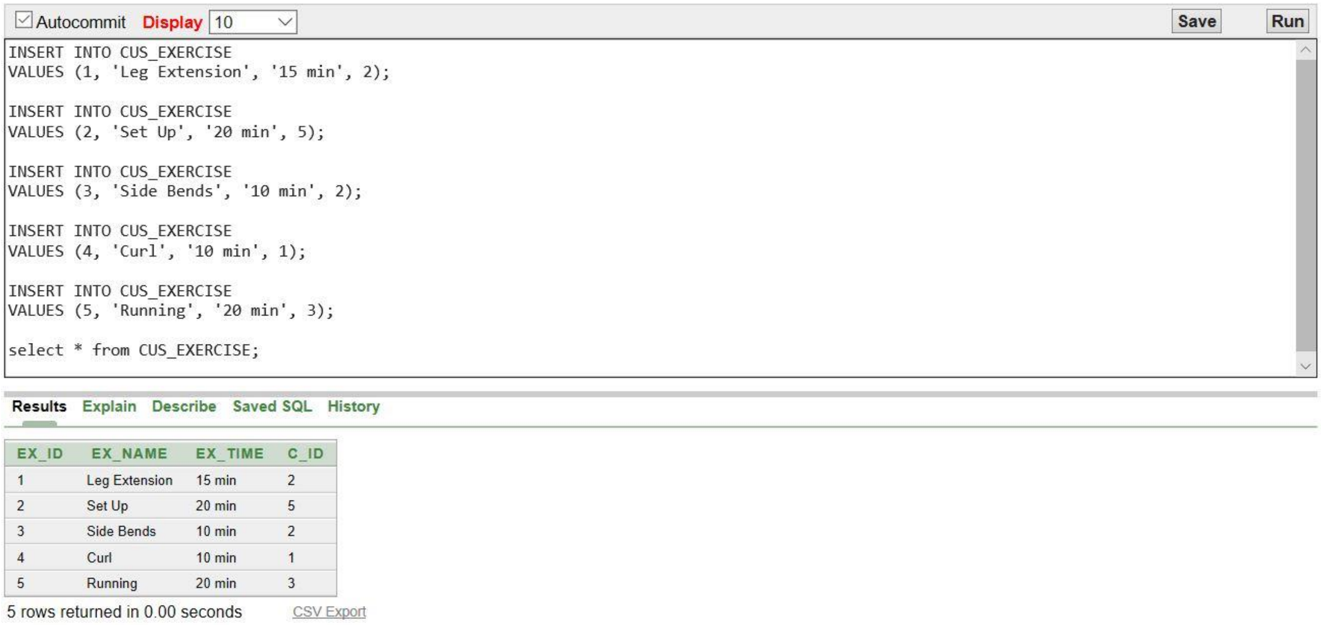


```
INSERT INTO CLIENT
VALUES (1, 'AKIB', 'Male', to_date('15-11-2017','dd-mm-yyyy'), '01710987600', 'Gulshan', 'Morning', to_date('7-5-1997','dd-mm-yyyy') );

INSERT INTO CLIENT
VALUES (2, 'FARIHA', 'Female', to_date('5-9-2017','dd-mm-yyyy'), '01680957610', 'Banani', 'Afternoon', to_date('2-9-2000','dd-mm-yyyy') );

INSERT INTO CLIENT
VALUES (3, 'MANIK', 'Male', to_date('19-10-2017','dd-mm-yyyy'), '01521114568', 'Uttara', 'Morning', to_date('2-9-2005','dd-mm-yyyy') );

INSERT INTO CLIENT
VALUES (4, 'ZISHAN', 'Male', to_date('1-12-2017','dd-mm-yyyy'), '01521224568', 'Rampura', 'Night', to_date('18-12-1993','dd-mm-yyyy') );

INSERT INTO CLIENT
VALUES (5, 'ADIBA', 'Female', to_date('1-12-2017','dd-mm-yyyy'), '01953224560', 'Mirpur', 'Afternoon', to_date('26-7-1999','dd-mm-yyyy') );

select * from CLIENT;
```

C_ID	C_NAME	C_GEN	C_JOIN	C_NUM	C_ADD	C_SHIFT	C_BD
1	AKIB	Male	15-NOV-17	1710987600	Gulshan	Morning	07-MAY-97
2	FARIHA	Female	05-SEP-17	1680957610	Banani	Afternoon	02-SEP-00
3	MANIK	Male	19-OCT-17	1521114568	Uttara	Morning	02-SEP-05
4	ZISHAN	Male	01-DEC-17	1521224568	Rampura	Night	18-DEC-93
5	ADIBA	Female	01-DEC-17	1953224560	Mirpur	Afternoon	26-JUL-99

5 rows returned in 0.00 seconds

Cus_Exercise Table:

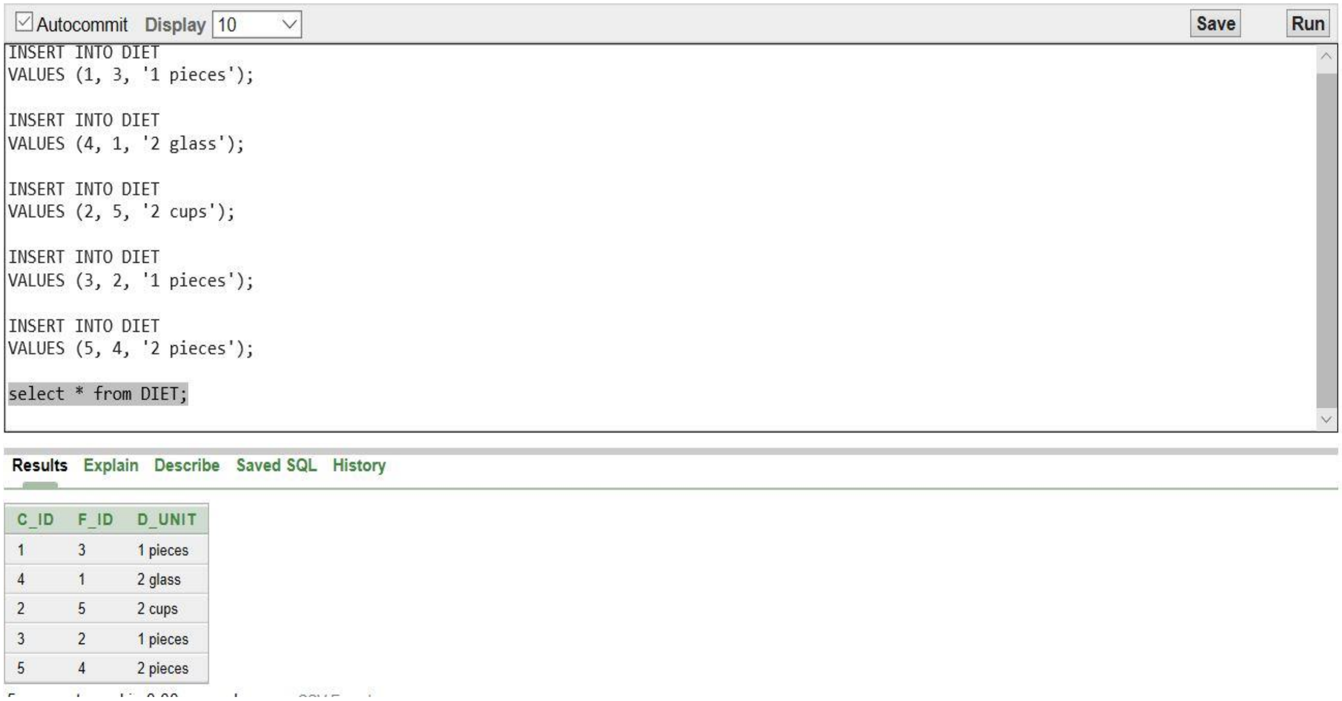


```
INSERT INTO CUS_EXERCISE
VALUES (1, 'Leg Extension', '15 min', 2);

INSERT INTO CUS_EXERCISE
VALUES (2, 'Set Up', '20 min', 5);

INSERT INTO CUS_EXERCISE
VALUES (3, 'Side Bends', '10 min', 2);

INSERT INTO CUS_EXERCISE
VALUES (4, 'Curl', '10 min', 1);

INSERT INTO CUS_EXERCISE
VALUES (5, 'Running', '20 min', 3);

select * from CUS_EXERCISE;
```

EX_ID	EX_NAME	EX_TIME	C_ID
1	Leg Extension	15 min	2
2	Set Up	20 min	5
3	Side Bends	10 min	2
4	Curl	10 min	1
5	Running	20 min	3

5 rows returned in 0.00 seconds

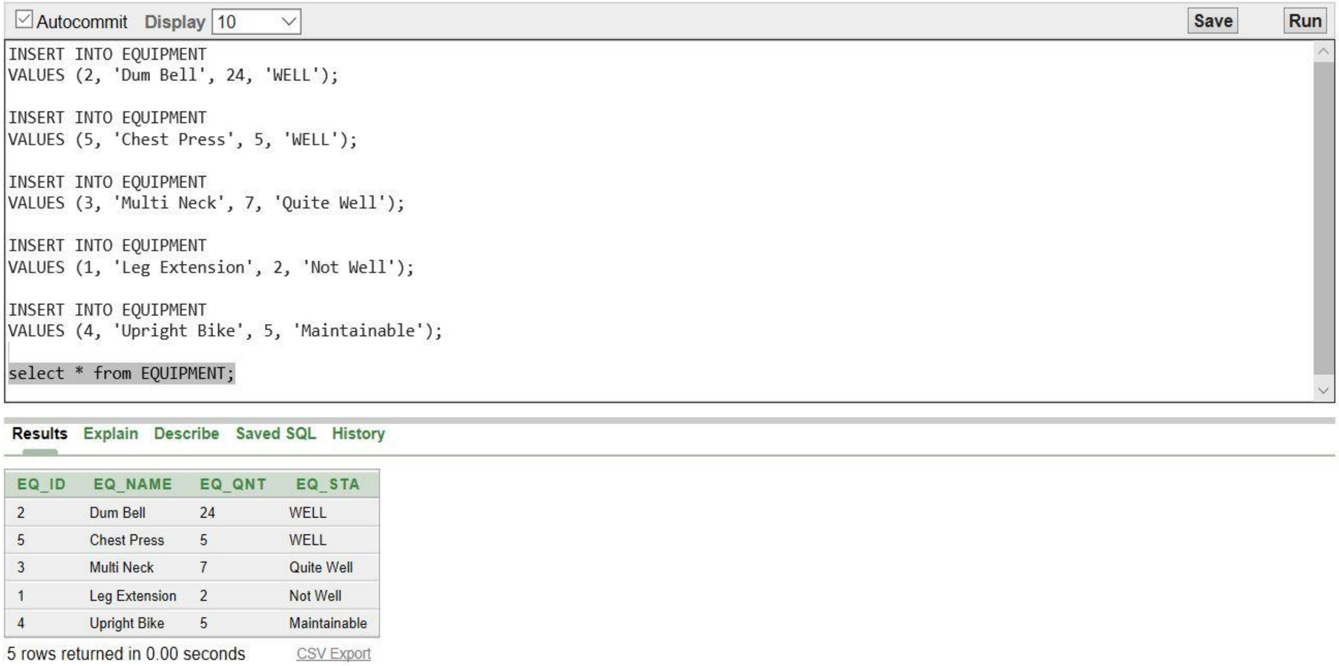
Diet Table:



```
INSERT INTO DIET
VALUES (1, 3, '1 pieces');

INSERT INTO DIET
VALUES (4, 1, '2 glass');

INSERT INTO DIET
VALUES (2, 5, '2 cups');

INSERT INTO DIET
VALUES (3, 2, '1 pieces');

INSERT INTO DIET
VALUES (5, 4, '2 pieces');

select * from DIET;
```

C_ID	F_ID	D_UNIT
1	3	1 pieces
4	1	2 glass
2	5	2 cups
3	2	1 pieces
5	4	2 pieces

Equipment Table:

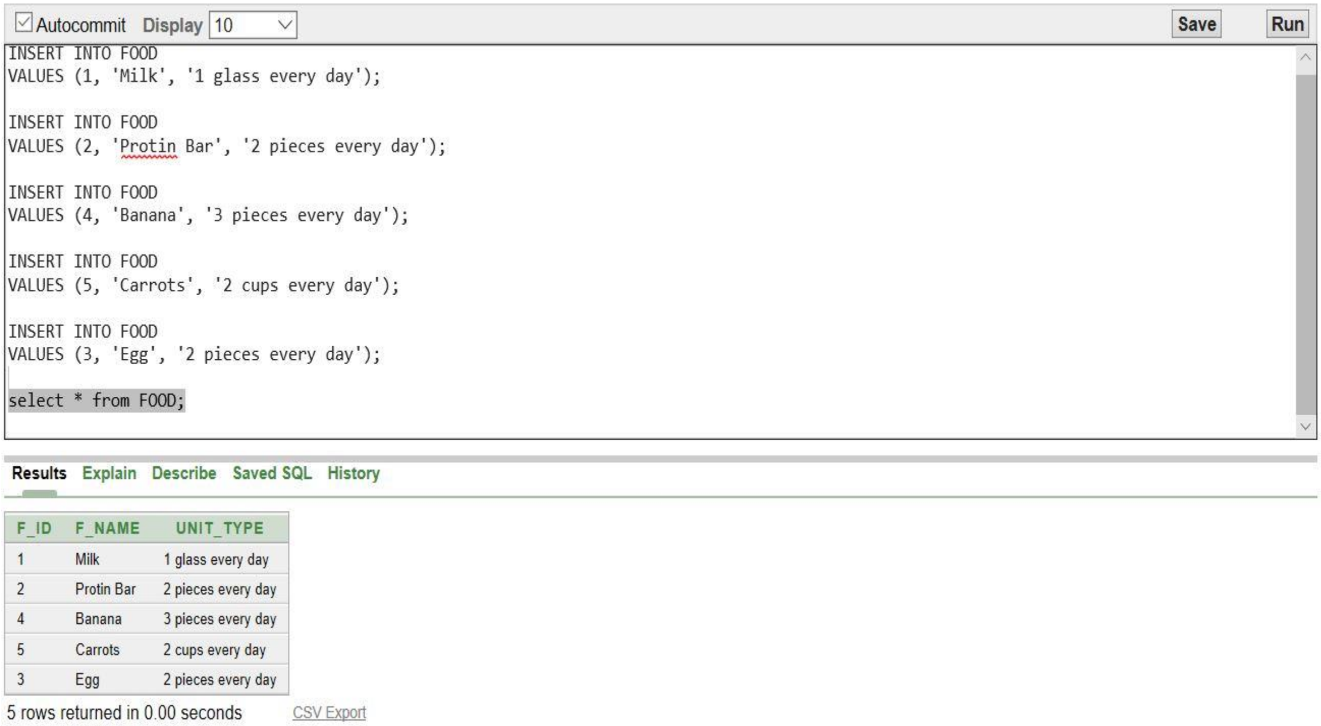


```
INSERT INTO EQUIPMENT
VALUES (2, 'Dum Bell', 24, 'WELL');

INSERT INTO EQUIPMENT
VALUES (5, 'Chest Press', 5, 'WELL');

INSERT INTO EQUIPMENT
VALUES (3, 'Multi Neck', 7, 'Quite Well');

INSERT INTO EQUIPMENT
VALUES (1, 'Leg Extension', 2, 'Not Well');

INSERT INTO EQUIPMENT
VALUES (4, 'Upright Bike', 5, 'Maintainable');

select * from EQUIPMENT;
```

EQ_ID	EQ_NAME	EQ_QNT	EQ_STA
2	Dum Bell	24	WELL
5	Chest Press	5	WELL
3	Multi Neck	7	Quite Well
1	Leg Extension	2	Not Well
4	Upright Bike	5	Maintainable

5 rows returned in 0.00 seconds

Food Table:

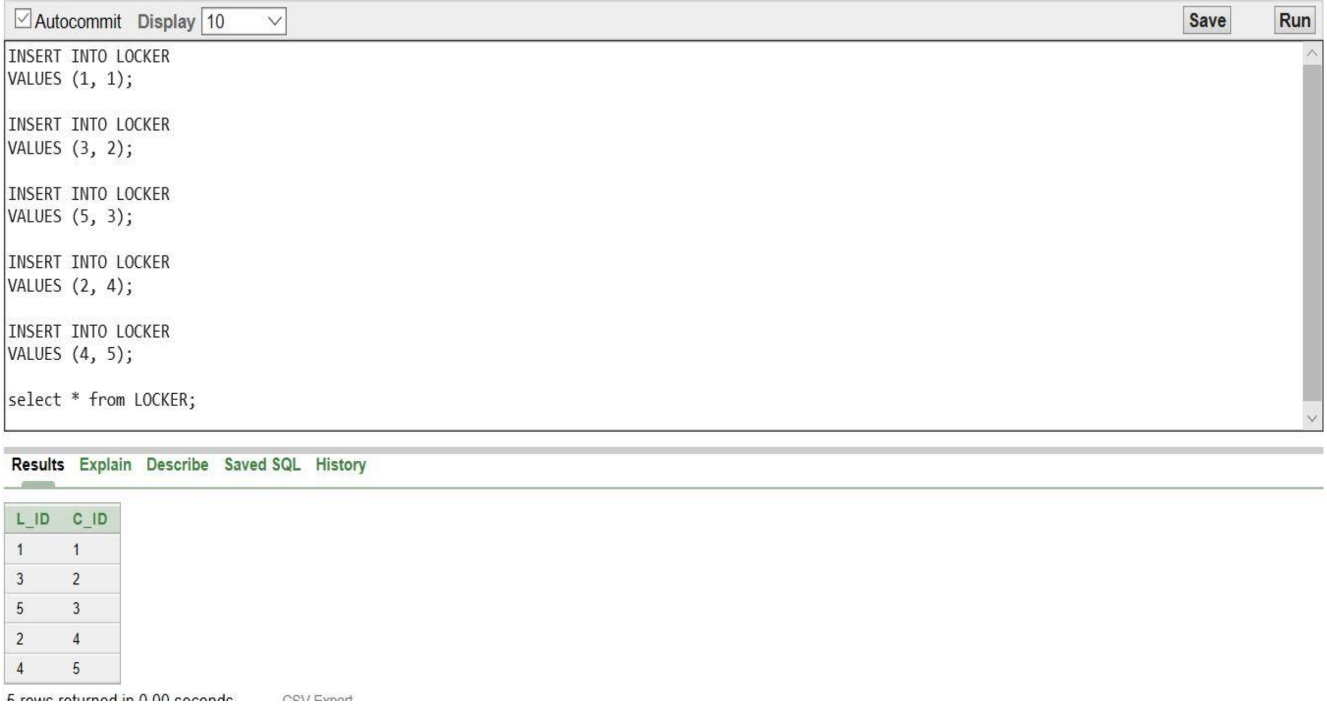


```
INSERT INTO FOOD
VALUES (1, 'Milk', '1 glass every day');

INSERT INTO FOOD
VALUES (2, 'Protin Bar', '2 pieces every day');

INSERT INTO FOOD
VALUES (4, 'Banana', '3 pieces every day');

INSERT INTO FOOD
VALUES (5, 'Carrots', '2 cups every day');

INSERT INTO FOOD
VALUES (3, 'Egg', '2 pieces every day');

select * from FOOD;
```

F_ID	F_NAME	UNIT_TYPE
1	Milk	1 glass every day
2	Protin Bar	2 pieces every day
4	Banana	3 pieces every day
5	Carrots	2 cups every day
3	Egg	2 pieces every day

5 rows returned in 0.00 seconds

Locker Table:



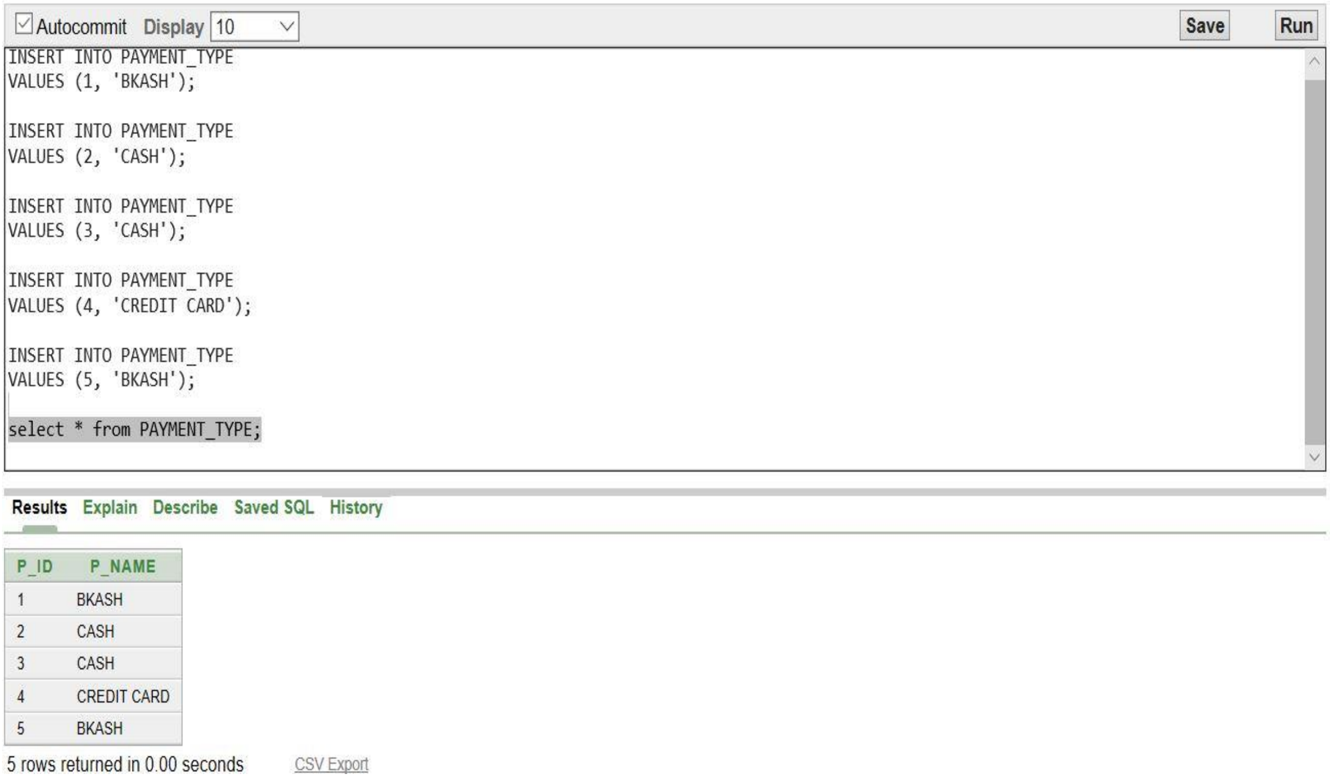
☑ Autocommit Display 10

```
INSERT INTO LOCKER
VALUES (1, 1);

INSERT INTO LOCKER
VALUES (3, 2);

INSERT INTO LOCKER
VALUES (5, 3);

INSERT INTO LOCKER
VALUES (2, 4);

INSERT INTO LOCKER
VALUES (4, 5);

select * from LOCKER;
```

L_ID	C_ID
1	1
3	2
5	3
2	4
4	5

5 rows returned in 0.00 seconds CSV Export

Payment_Type Table:



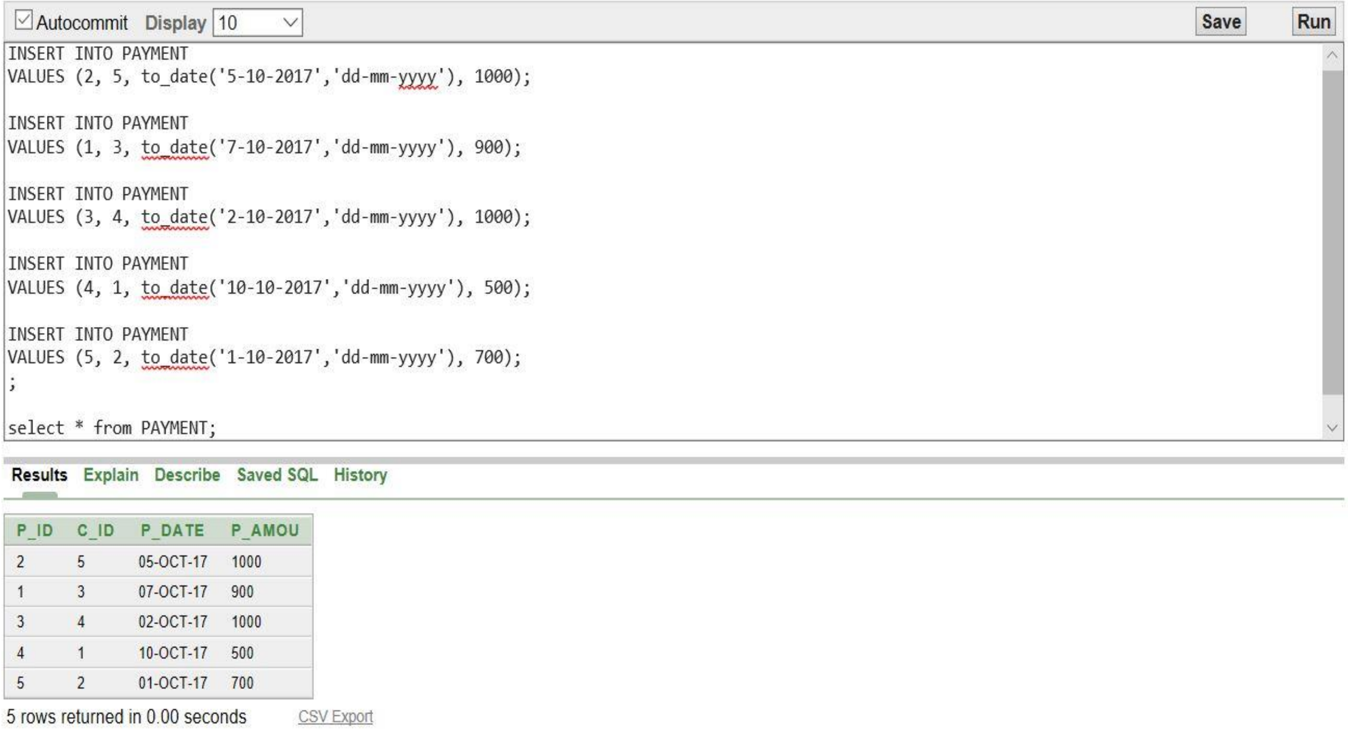
☑ Autocommit Display 10

```
INSERT INTO PAYMENT_TYPE
VALUES (1, 'BKASH');

INSERT INTO PAYMENT_TYPE
VALUES (2, 'CASH');

INSERT INTO PAYMENT_TYPE
VALUES (3, 'CASH');

INSERT INTO PAYMENT_TYPE
VALUES (4, 'CREDIT CARD');

INSERT INTO PAYMENT_TYPE
VALUES (5, 'BKASH');

select * from PAYMENT_TYPE;
```

P_ID	P_NAME
1	BKASH
2	CASH
3	CASH
4	CREDIT CARD
5	BKASH

5 rows returned in 0.00 seconds CSV Export

Payment Table:

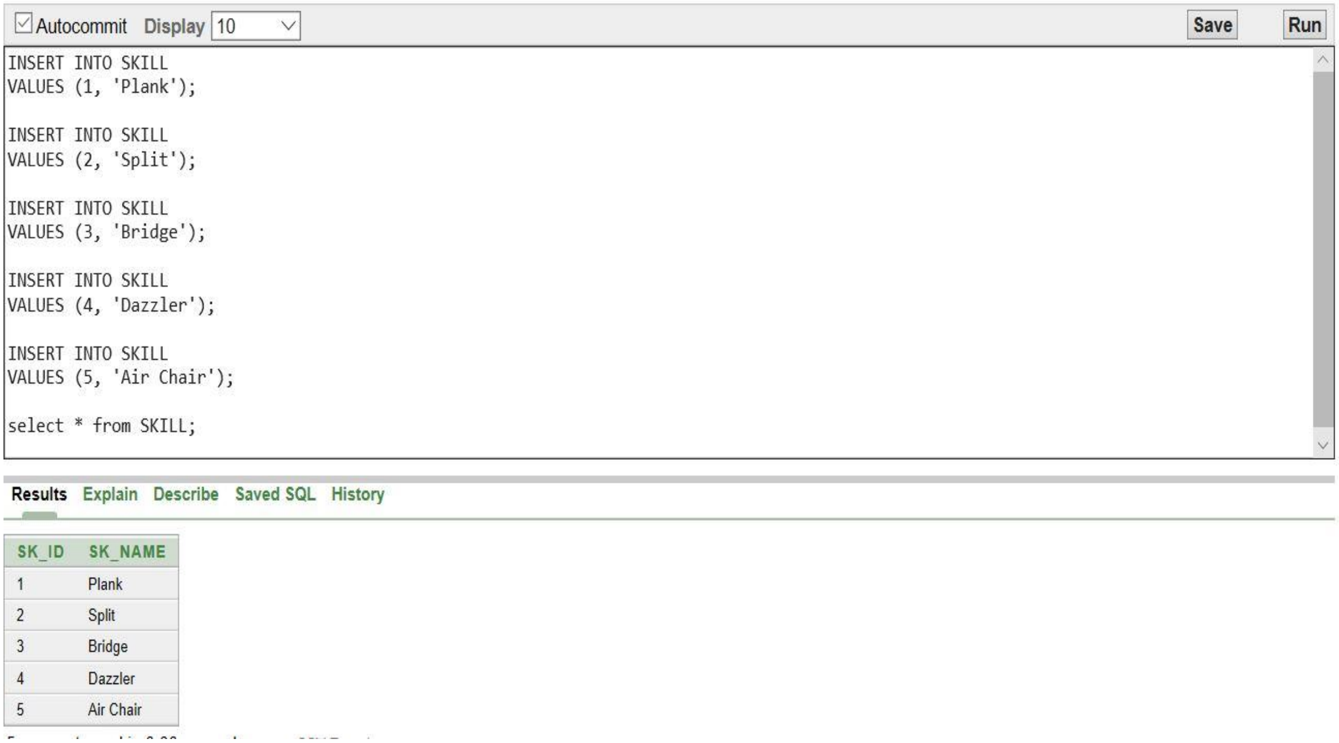


```
INSERT INTO PAYMENT
VALUES (2, 5, to_date('5-10-2017','dd-mm-yyyy'), 1000);

INSERT INTO PAYMENT
VALUES (1, 3, to_date('7-10-2017','dd-mm-yyyy'), 900);

INSERT INTO PAYMENT
VALUES (3, 4, to_date('2-10-2017','dd-mm-yyyy'), 1000);

INSERT INTO PAYMENT
VALUES (4, 1, to_date('10-10-2017','dd-mm-yyyy'), 500);

INSERT INTO PAYMENT
VALUES (5, 2, to_date('1-10-2017','dd-mm-yyyy'), 700);
;

select * from PAYMENT;
```

P_ID	C_ID	P_DATE	P_AMOU
2	5	05-OCT-17	1000
1	3	07-OCT-17	900
3	4	02-OCT-17	1000
4	1	10-OCT-17	500
5	2	01-OCT-17	700

5 rows returned in 0.00 seconds

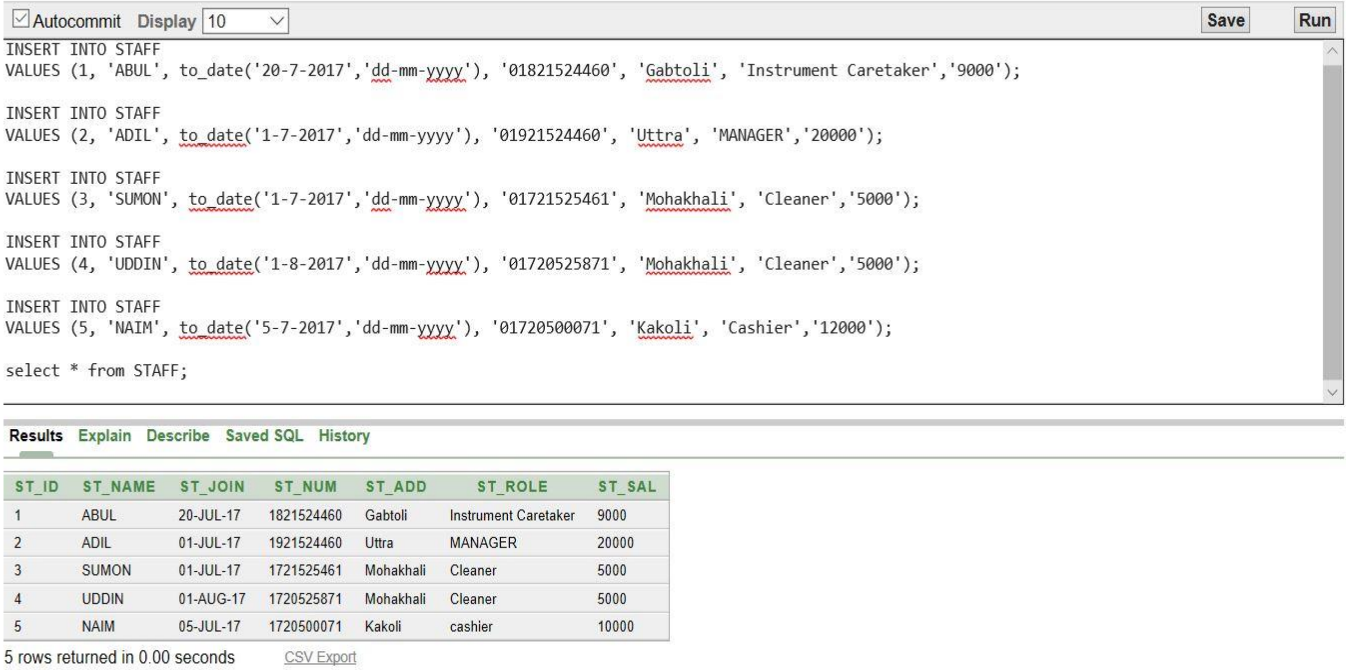
Skill Table:



```
INSERT INTO SKILL
VALUES (1, 'Plank');

INSERT INTO SKILL
VALUES (2, 'Split');

INSERT INTO SKILL
VALUES (3, 'Bridge');

INSERT INTO SKILL
VALUES (4, 'Dazzler');

INSERT INTO SKILL
VALUES (5, 'Air Chair');

select * from SKILL;
```

SK_ID	SK_NAME
1	Plank
2	Split
3	Bridge
4	Dazzler
5	Air Chair

Staff Table:

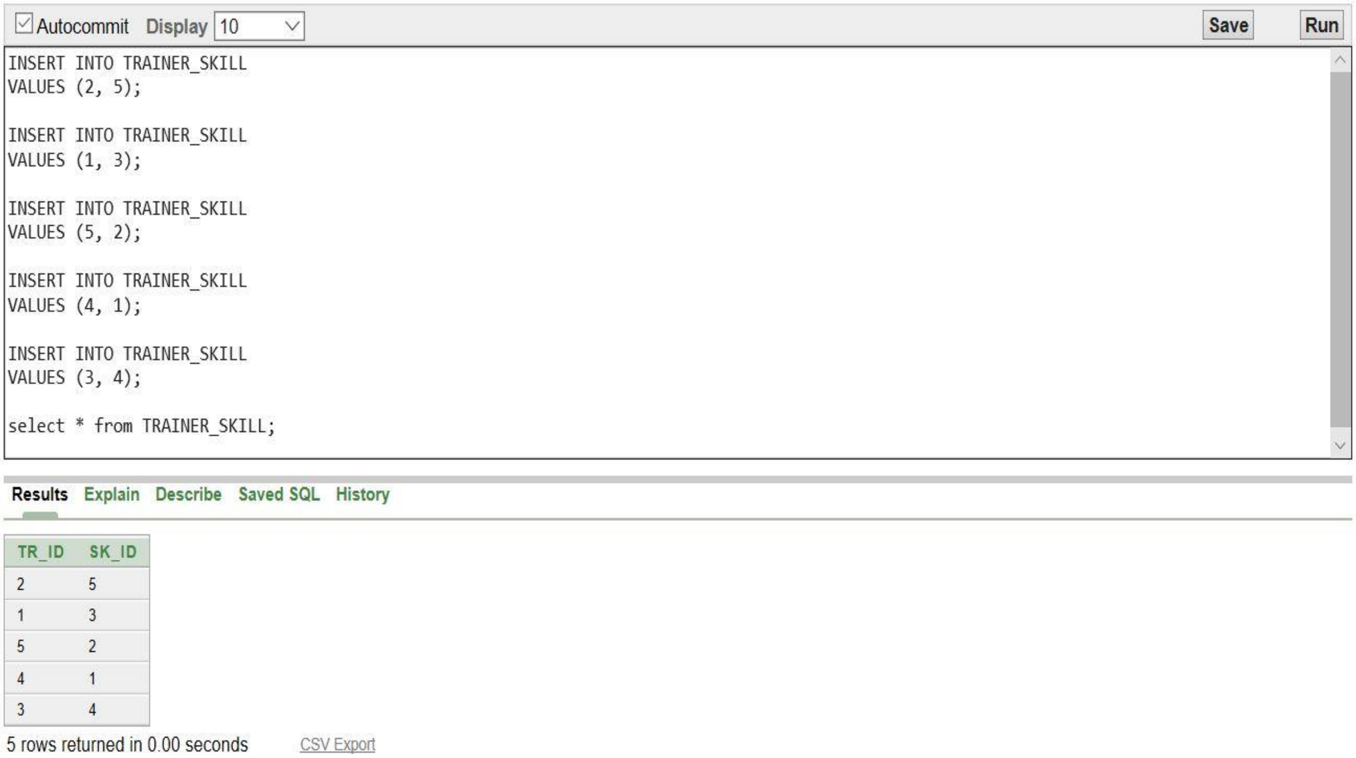


```
INSERT INTO STAFF
VALUES (1, 'ABUL', to_date('20-7-2017','dd-mm-yyyy'), '01821524460', 'Gabtoli', 'Instrument Caretaker','9000');

INSERT INTO STAFF
VALUES (2, 'ADIL', to_date('1-7-2017','dd-mm-yyyy'), '01921524460', 'Uttra', 'MANAGER','20000');

INSERT INTO STAFF
VALUES (3, 'SUMON', to_date('1-7-2017','dd-mm-yyyy'), '01721525461', 'Mohakhali', 'Cleaner','5000');

INSERT INTO STAFF
VALUES (4, 'UDDIN', to_date('1-8-2017','dd-mm-yyyy'), '01720525871', 'Mohakhali', 'Cleaner','5000');

INSERT INTO STAFF
VALUES (5, 'NAIM', to_date('5-7-2017','dd-mm-yyyy'), '01720500071', 'Kakoli', 'Cashier','12000');

select * from STAFF;
```

ST_ID	ST_NAME	ST_JOIN	ST_NUM	ST_ADD	ST_ROLE	ST_SAL
1	ABUL	20-JUL-17	1821524460	Gabtoli	Instrument Caretaker	9000
2	ADIL	01-JUL-17	1921524460	Uttra	MANAGER	20000
3	SUMON	01-JUL-17	1721525461	Mohakhali	Cleaner	5000
4	UDDIN	01-AUG-17	1720525871	Mohakhali	Cleaner	5000
5	NAIM	05-JUL-17	1720500071	Kakoli	cashier	10000

5 rows returned in 0.00 seconds

Trainer_Skill Table:

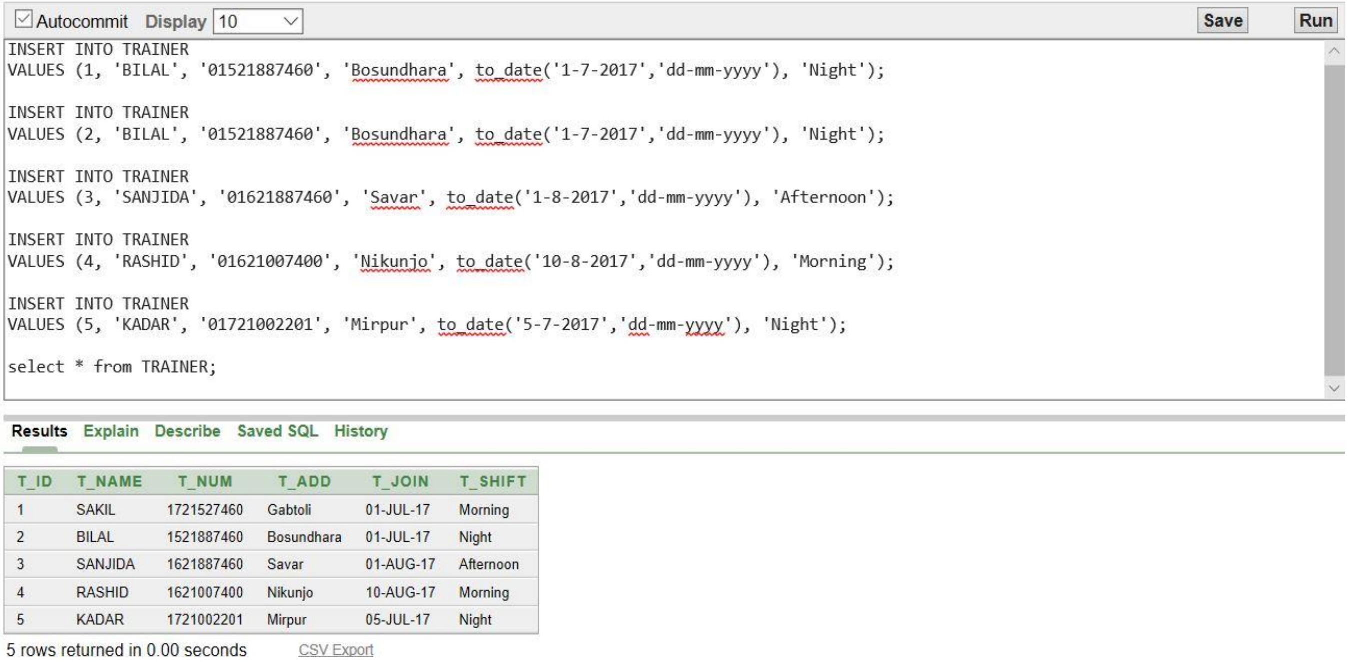


```
INSERT INTO TRAINER_SKILL
VALUES (2, 5);

INSERT INTO TRAINER_SKILL
VALUES (1, 3);

INSERT INTO TRAINER_SKILL
VALUES (5, 2);

INSERT INTO TRAINER_SKILL
VALUES (4, 1);

INSERT INTO TRAINER_SKILL
VALUES (3, 4);

select * from TRAINER_SKILL;
```

TR_ID	SK_ID
2	5
1	3
5	2
4	1
3	4

5 rows returned in 0.00 seconds

Trainer Table:



```
INSERT INTO TRAINER
VALUES (1, 'BILAL', '01521887460', 'Bosundhara', to_date('1-7-2017','dd-mm-yyyy'), 'Night');

INSERT INTO TRAINER
VALUES (2, 'BILAL', '01521887460', 'Bosundhara', to_date('1-7-2017','dd-mm-yyyy'), 'Night');

INSERT INTO TRAINER
VALUES (3, 'SANJIDA', '01621887460', 'Savar', to_date('1-8-2017','dd-mm-yyyy'), 'Afternoon');

INSERT INTO TRAINER
VALUES (4, 'RASHID', '01621007400', 'Nikunjo', to_date('10-8-2017','dd-mm-yyyy'), 'Morning');

INSERT INTO TRAINER
VALUES (5, 'KADAR', '01721002201', 'Mirpur', to_date('5-7-2017','dd-mm-yyyy'), 'Night');

select * from TRAINER;
```

T_ID	T_NAME	T_NUM	T_ADD	T_JOIN	T_SHIFT
1	SAKIL	1721527460	Gabtoli	01-JUL-17	Morning
2	BILAL	1521887460	Bosundhara	01-JUL-17	Night
3	SANJIDA	1621887460	Savar	01-AUG-17	Afternoon
4	RASHID	1621007400	Nikunjo	10-AUG-17	Morning
5	KADAR	1721002201	Mirpur	05-JUL-17	Night

5 rows returned in 0.00 seconds

Here are the Insert queries for those tables:

# Insert client

INSERT INTO CLIENT

VALUES (1, 'AKIB', 'Male', to_date('15-11-2017','dd-mm-yyyy'), '01710987600', 'Gulshan', 'Morning', to_date('7-5-1997','dd-mm-yyyy'));

INSERT INTO CLIENT

VALUES (2, 'FARIHA', 'Female', to_date('5-9-2017','dd-mm-yyyy'), '01680957610', 'Banani', 'Afternoon', to_date('2-9-2000','dd-mm-yyyy'));

INSERT INTO CLIENT

VALUES (3, 'MANIK', 'Male', to_date('19-10-2017','dd-mm-yyyy'), '01521114568', 'Uttara', 'Morning', to_date('2-9-2005','dd-mm-yyyy'));

INSERT INTO CLIENT

VALUES (4, 'ZISHAN', 'Male', to_date('1-12-2017','dd-mm-yyyy'), '01521224568', 'Rampura', 'Night', to_date('18-12-1993','dd-mm-yyyy'));

INSERT INTO CLIENT

```
VALUES (5, 'ADIBA', 'Female', to_date('1-12-2017','dd-mm-yyyy'), '01953224560', 'Mirpur', 'Afternoon',
to_date('26-7-1999','dd-mm-yyyy') );
```

#Insert Staff

```
INSERT INTO STAFF

VALUES (1, 'ABUL', to_date('20-7-2017','dd-mm-yyyy'), '01821524460', 'Gabtoli', 'Instrument
Caretaker','9000');

INSERT INTO STAFF

VALUES (2, 'ADIL', to_date('1-7-2017','dd-mm-yyyy'), '01921524460', 'Uttra', 'MANAGER','20000');

INSERT INTO STAFF

VALUES (3, 'SUMON', to_date('1-7-2017','dd-mm-yyyy'), '01721525461', 'Mohakhali', 'Cleaner','5000');

INSERT INTO STAFF

VALUES (4, 'UDDIN', to_date('1-8-2017','dd-mm-yyyy'), '01720525871', 'Mohakhali', 'Cleaner','5000');

INSERT INTO STAFF

VALUES (5, 'NAIM', to_date('5-7-2017','dd-mm-yyyy'), '01720500071', 'Kakoli', 'Cashier','12000');
```

#Insert LOCKER

```
INSERT INTO LOCKER

VALUES (1, 1);

INSERT INTO LOCKER

VALUES (3, 2);

INSERT INTO LOCKER

VALUES (5, 3);

INSERT INTO LOCKER

VALUES (2, 4);

INSERT INTO LOCKER

VALUES (4, 5);
```

#Insert Trainer

```
INSERT INTO TRAINER
VALUES (1, 'BILAL', '01521887460', 'Bosundhara', to_date('1-7-2017','dd-mm-yyyy'), 'Night');
INSERT INTO TRAINER
VALUES (2, 'BILAL', '01521887460', 'Bosundhara', to_date('1-7-2017','dd-mm-yyyy'), 'Night');
INSERT INTO TRAINER
VALUES (3, 'SANJIDA', '01621887460', 'Savar', to_date('1-8-2017','dd-mm-yyyy'), 'Afternoon');
INSERT INTO TRAINER
VALUES (4, 'RASHID', '01621007400', 'Nikunjo', to_date('10-8-2017','dd-mm-yyyy'), 'Morning');
INSERT INTO TRAINER
VALUES (5, 'KADAR', '01721002201', 'Mirpur', to_date('5-7-2017','dd-mm-yyyy'), 'Night');
```

#Insert Skill

```
INSERT INTO SKILL
VALUES (1, 'Plank');
INSERT INTO SKILL
VALUES (2, 'Split');
INSERT INTO SKILL
VALUES (3, 'Bridge');
INSERT INTO SKILL
VALUES (4, 'Dazzler');
INSERT INTO SKILL
VALUES (5, 'Air Chair');
```

#Insert Trainer_Skill

```
INSERT INTO TRAINER_SKILL
VALUES (2, 5);
INSERT INTO TRAINER_SKILL
VALUES (1, 3);
INSERT INTO TRAINER_SKILL
VALUES (5, 2);
INSERT INTO TRAINER_SKILL
VALUES (4, 1);
INSERT INTO TRAINER_SKILL
VALUES (3, 4);
```

#Insert Payment_type

```
INSERT INTO PAYMENT_TYPE
VALUES (1, 'BKASH');
INSERT INTO PAYMENT_TYPE
VALUES (2, 'CASH');
INSERT INTO PAYMENT_TYPE
VALUES (3, 'CASH');
INSERT INTO PAYMENT_TYPE
VALUES (4, 'CREDIT CARD');
INSERT INTO PAYMENT_TYPE
VALUES (5, 'BKASH');
```

#Insert Payment

```
INSERT INTO PAYMENT

VALUES (2, 5, to_date('5-10-2017','dd-mm-yyyy'), 1000);

INSERT INTO PAYMENT

VALUES (1, 3, to_date('7-10-2017','dd-mm-yyyy'), 900);

INSERT INTO PAYMENT

VALUES (3, 4, to_date('2-10-2017','dd-mm-yyyy'), 1000);

INSERT INTO PAYMENT

VALUES (4, 1, to_date('10-10-2017','dd-mm-yyyy'), 500);

INSERT INTO PAYMENT

VALUES (5, 2, to_date('1-10-2017','dd-mm-yyyy'), 700);
```

#Insert Equipment

```
INSERT INTO EQUIPMENT

VALUES (2, 'Dum Bell', 24, 'WELL');

INSERT INTO EQUIPMENT

VALUES (5, 'Chest Press', 5, 'WELL');

INSERT INTO EQUIPMENT

VALUES (3, 'Multi Neck', 7, 'Quite Well');

INSERT INTO EQUIPMENT

VALUES (1, 'Leg Extension', 2, 'Not Well');

INSERT INTO EQUIPMENT

VALUES (4, 'Upright Bike', 5, 'Maintainable');
```

#Insert CUS_EXERCISE

```
INSERT INTO CUS_EXERCISE
VALUES (1, 'Leg Extension', '15 min', 2);
INSERT INTO CUS_EXERCISE
VALUES (2, 'Set Up', '20 min', 5);
INSERT INTO CUS_EXERCISE
VALUES (3, 'Side Bends', '10 min', 2);
INSERT INTO CUS_EXERCISE
VALUES (4, 'Curl', '10 min', 1);
INSERT INTO CUS_EXERCISE
VALUES (5, 'Running', '20 min', 3);
```

#Insert Food

```
INSERT INTO FOOD
VALUES (1, 'Milk', '1 glass every day');
INSERT INTO FOOD
VALUES (2, 'Protin Bar', '2 pieces every day');
INSERT INTO FOOD
VALUES (4, 'Banana', '3 pieces every day');
INSERT INTO FOOD
VALUES (5, 'Carrots', '2 cups every day');
INSERT INTO FOOD
VALUES (3, 'Egg', '2 pieces every day');
```

#Insert Diet

```
INSERT INTO DIET
```

```
VALUES (1, 3, '1 pieces');

INSERT INTO DIET

VALUES (4, 1, '2 glass');

INSERT INTO DIET

VALUES (2, 5, '2 cups');

INSERT INTO DIET

VALUES (3, 2, '1 pieces');

INSERT INTO DIET

VALUES (5, 4, '2 pieces');
```

Query Writing

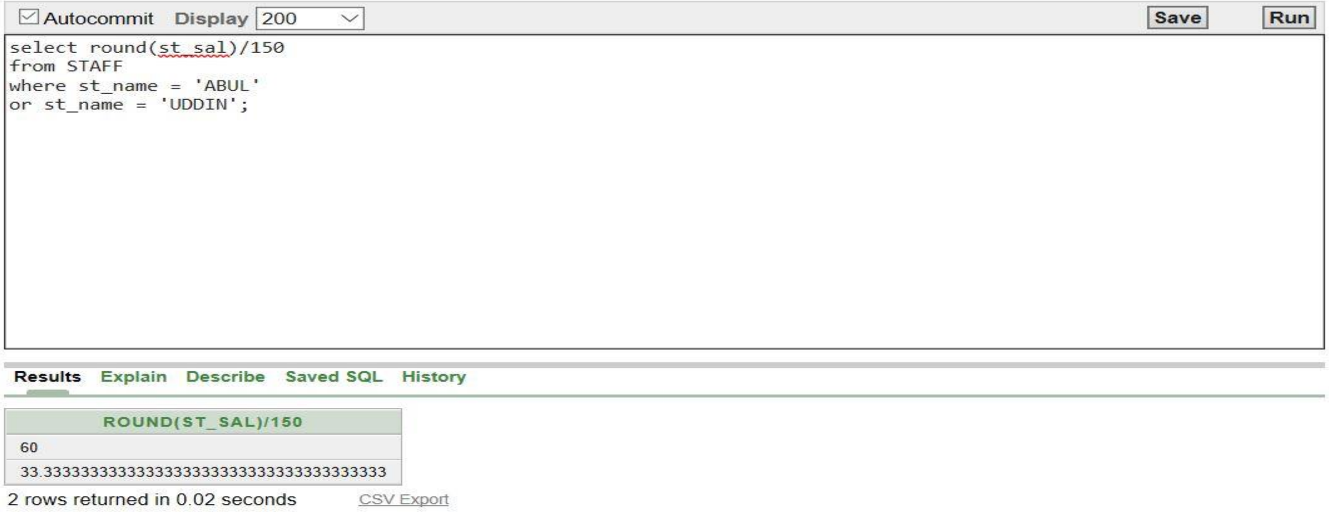
Here some query and screen shot of some questions for our project.

##SINGLE ROW FUNCTION QUERIES:

1) Calculate and display the rounded salary of staff Abul and Uddin after dividing salary by 150?

Answer:

```
select round(st_sal)/150

from STAFF

where st_name = 'ABUL'

or st_name = 'UDDIN';
```



```
select round(st_sal)/150
from STAFF
where st_name = 'ABUL'
or st_name = 'UDDIN';
```

ROUND(ST_SAL)/150
60
33.333333333333333333333333333333333333

2 rows returned in 0.02 seconds

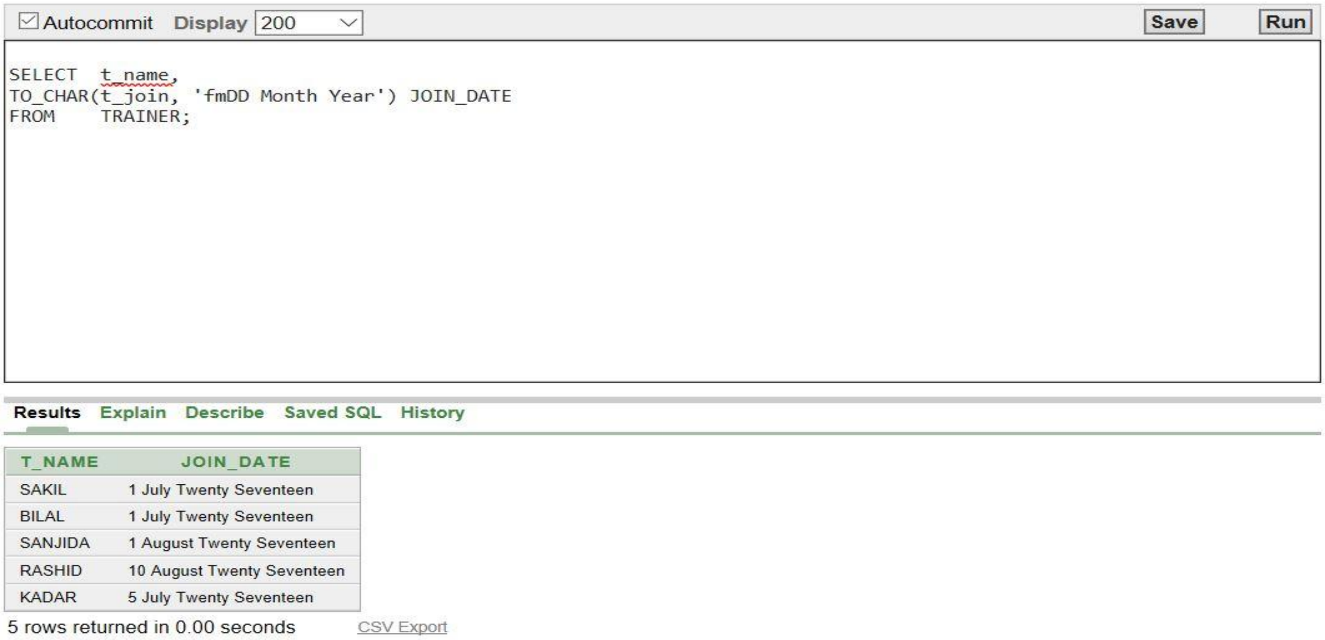
2) Display the joindate of all trainer in the format DD-MONTH-YEAR(e.g 17 December Nineteen Eighty) and label the column JOIN_DATE?

Answer:

SELECT t_name,

TO_CHAR(t_join, 'fmDD Month Year') JOIN_DATE

FROM TRAINER;



```
SELECT  t_name,
TO_CHAR(t_join, 'fmDD Month Year') JOIN_DATE
FROM    TRAINER;
```

T_NAME	JOIN_DATE
SAKIL	1 July Twenty Seventeen
BILAL	1 July Twenty Seventeen
SANJIDA	1 August Twenty Seventeen
RASHID	10 August Twenty Seventeen
KADAR	5 July Twenty Seventeen

5 rows returned in 0.00 seconds

##GROUP FUNCTION QUERIES:

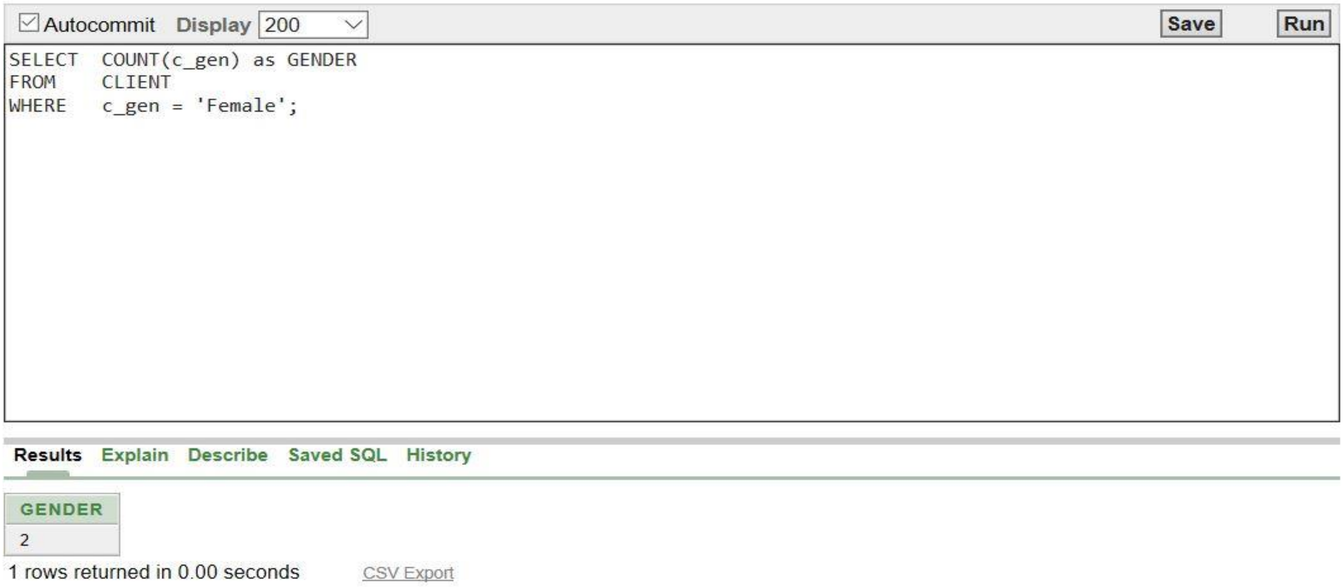
3) Display the number of client whose gender is FEMALE and label the column GENDER?

Answer:

SELECT COUNT(c_gen) as GENDER

FROM   CLIENT

WHERE c_gen = 'Female';



```
SELECT  COUNT(c_gen) as GENDER
FROM    CLIENT
WHERE   c_gen = 'Female';
```

GENDER
2

1 rows returned in 0.00 seconds

4) Display the sum of salaries grouped by the satff id and role but the sum of salary must be greater than 8500?

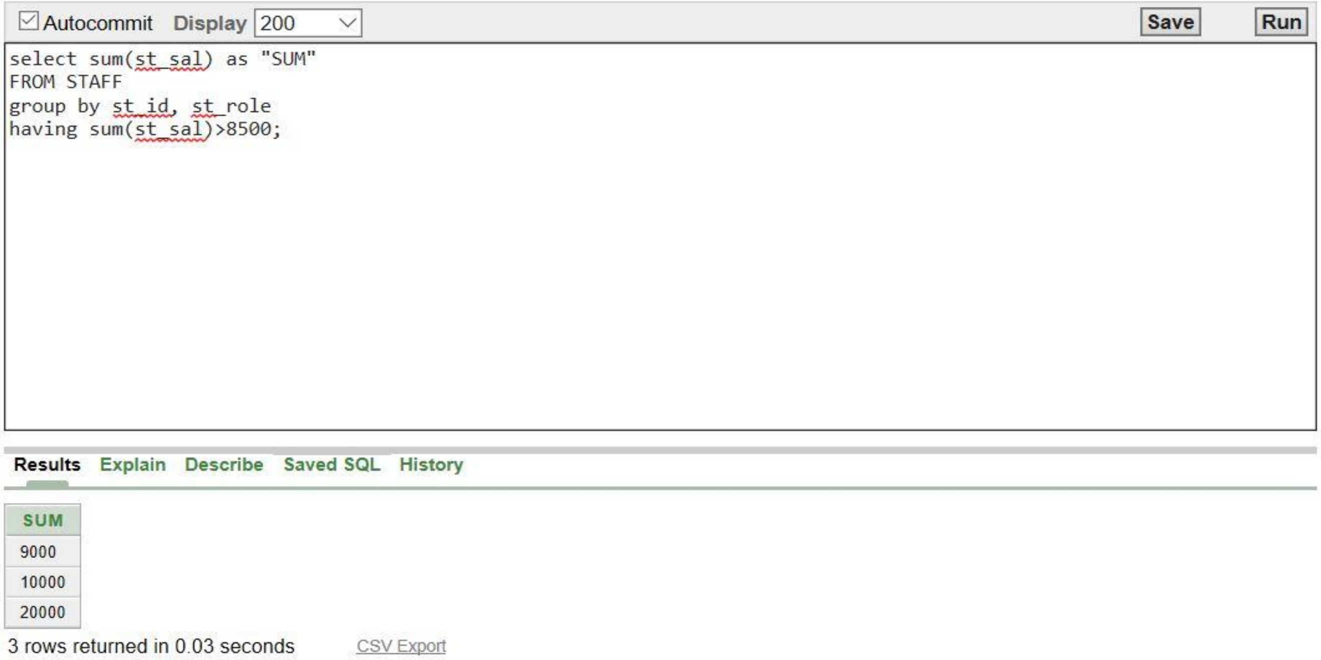
Answer:

select sum(st_sal) as "SUM"

FROM STAFF

group by st_id, st_role

having sum(st_sal)>8500;



```
select sum(st_sal) as "SUM"
FROM STAFF
group by st_id, st_role
having sum(st_sal)>8500;
```

SUM
9000
10000
20000

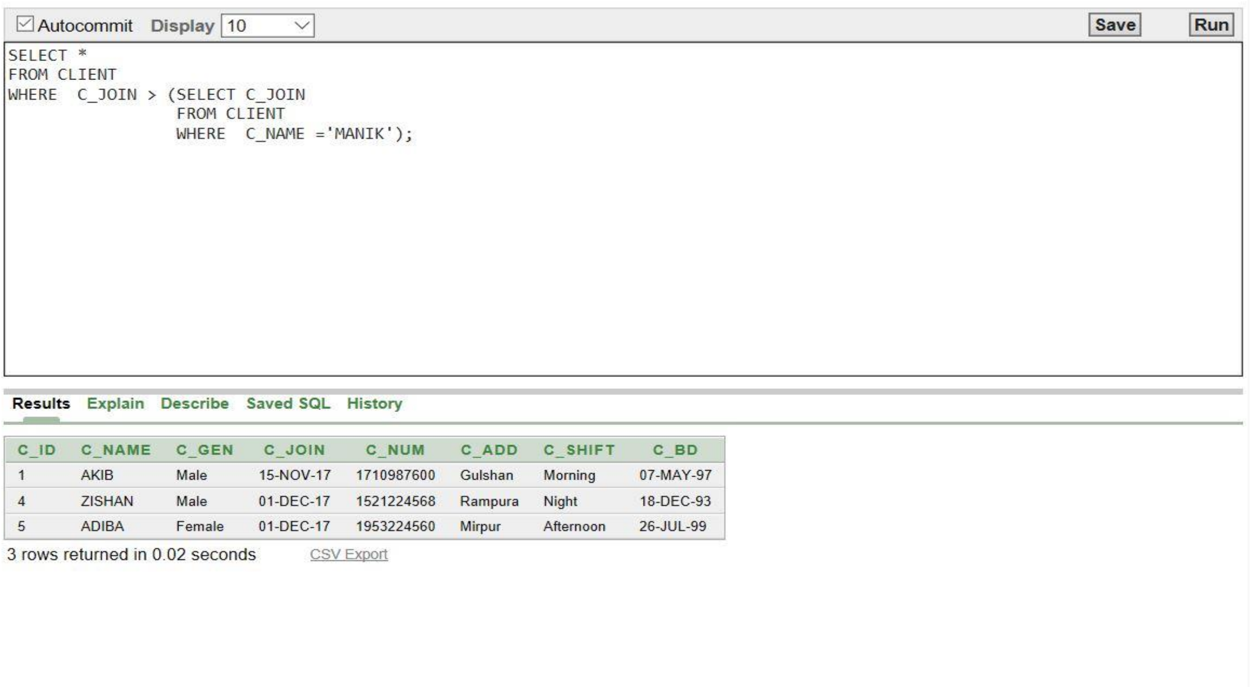
3 rows returned in 0.03 seconds

##SUB QUARIES:

5) Display the Client details who joined after MANIK?

Answer:

```
SELECT *
FROM CLIENT
WHERE  C_JOIN > (SELECT C_JOIN
            FROM CLIENT
            WHERE  C_NAME ='MANIK');
```



```
SELECT *
FROM CLIENT
WHERE  C_JOIN > (SELECT C_JOIN
                 FROM CLIENT
                 WHERE  C_NAME ='MANIK');
```

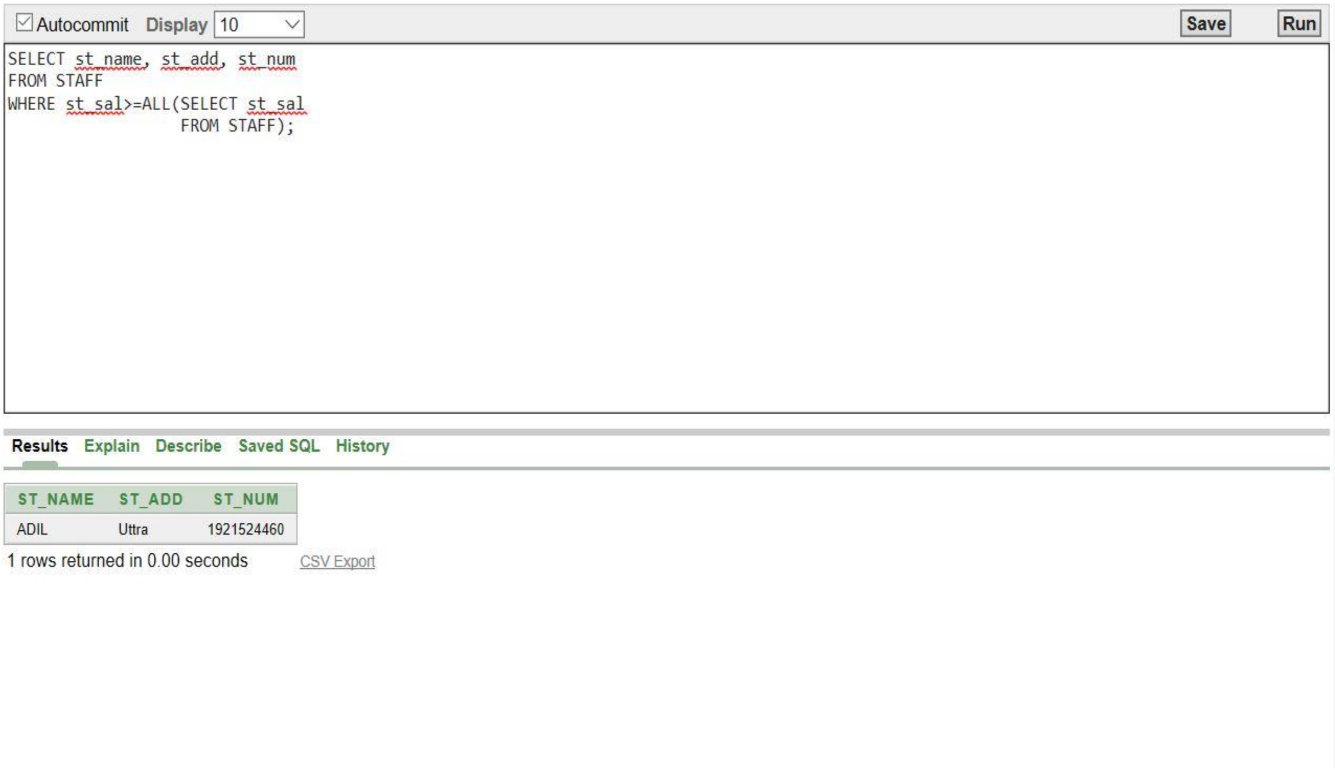
C_ID	C_NAME	C_GEN	C_JOIN	C_NUM	C_ADD	C_SHIFT	C_BD
1	AKIB	Male	15-NOV-17	1710987600	Gulshan	Morning	07-MAY-97
4	ZISHAN	Male	01-DEC-17	1521224568	Rampura	Night	18-DEC-93
5	ADIBA	Female	01-DEC-17	1953224560	Mirpur	Afternoon	26-JUL-99

3 rows returned in 0.02 seconds

6) Find the name, address and number of the Staff who get highest paid salary?

Answer:

```
SELECT st_name, st_add, st_num
FROM STAFF
WHERE st_sal>=ALL(SELECT st_sal
            FROM STAFF);
```



```
SELECT st_name, st_add, st_num
FROM STAFF
WHERE st_sal>=ALL(SELECT st_sal
                  FROM STAFF);
```

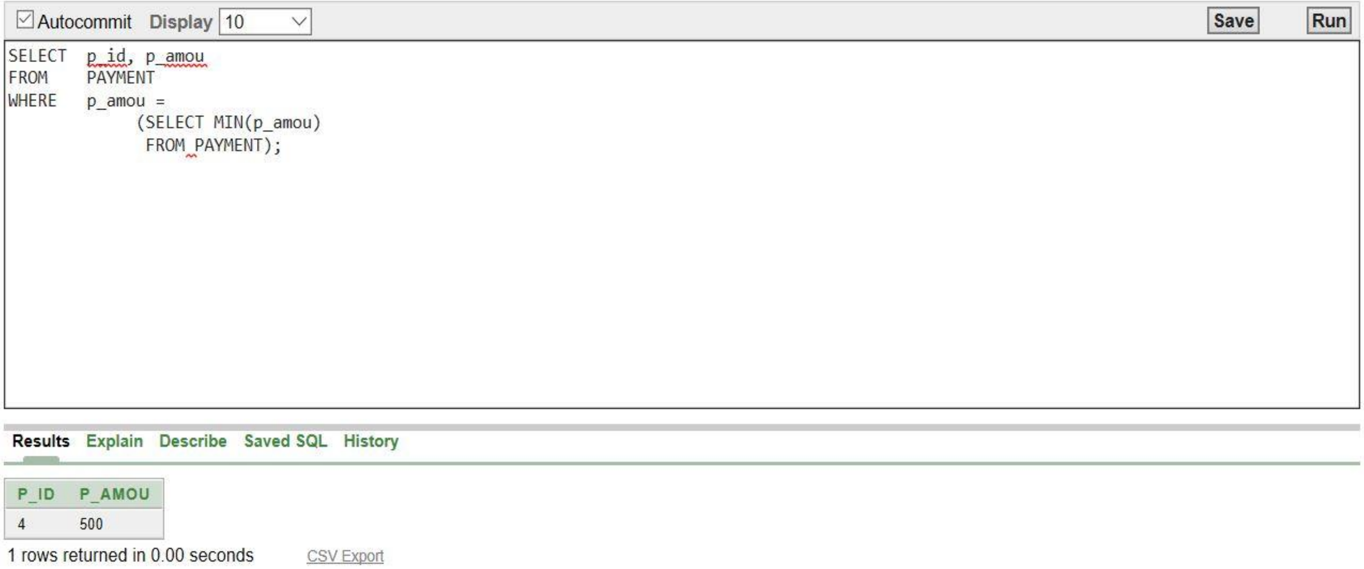
ST_NAME	ST_ADD	ST_NUM
ADIL	Uttra	1921524460

1 rows returned in 0.00 seconds

7) Find the payment id and amount who of lowest payment holder?

Answer:

```
SELECT  p_id, p_amou

FROM   PAYMENT

WHERE p_amou =

             (SELECT MIN(p_amou)

              FROM PAYMENT);
```



```
SELECT  p_id, p_amou
FROM    PAYMENT
WHERE   p_amou =
            (SELECT MIN(p_amou)
             FROM PAYMENT);
```

P_ID	P_AMOU
4	500

1 rows returned in 0.00 seconds

##JOINING QUERIES:

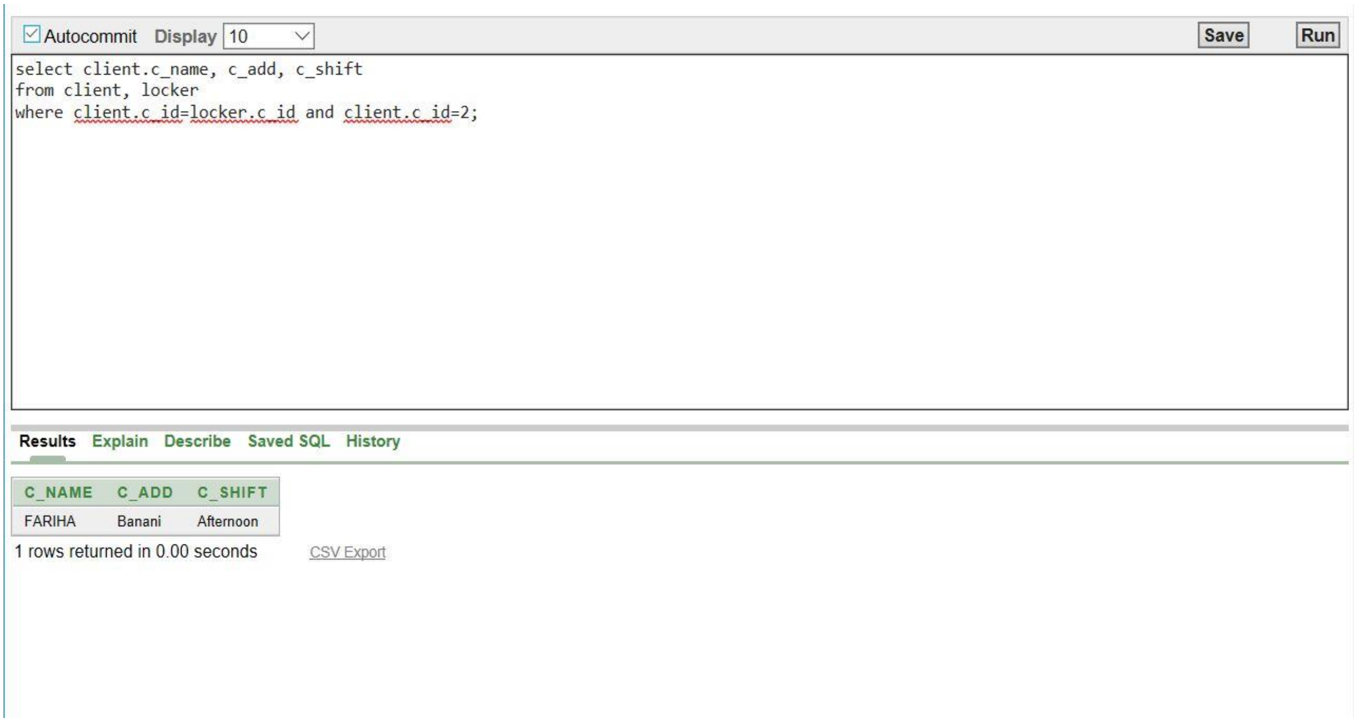
8) Find the client name, address and shift who use locker 2?

Answer:

select client.c_name, c_add, c_shift

from client, locker

where client.c_id=locker.c_id and client.c_id=2;



```
select client.c_name, c_add, c_shift
from client, locker
where client.c_id=locker.c_id and client.c_id=2;
```

C_NAME	C_ADD	C_SHIFT
FARIHA	Banani	Afternoon

1 rows returned in 0.00 seconds

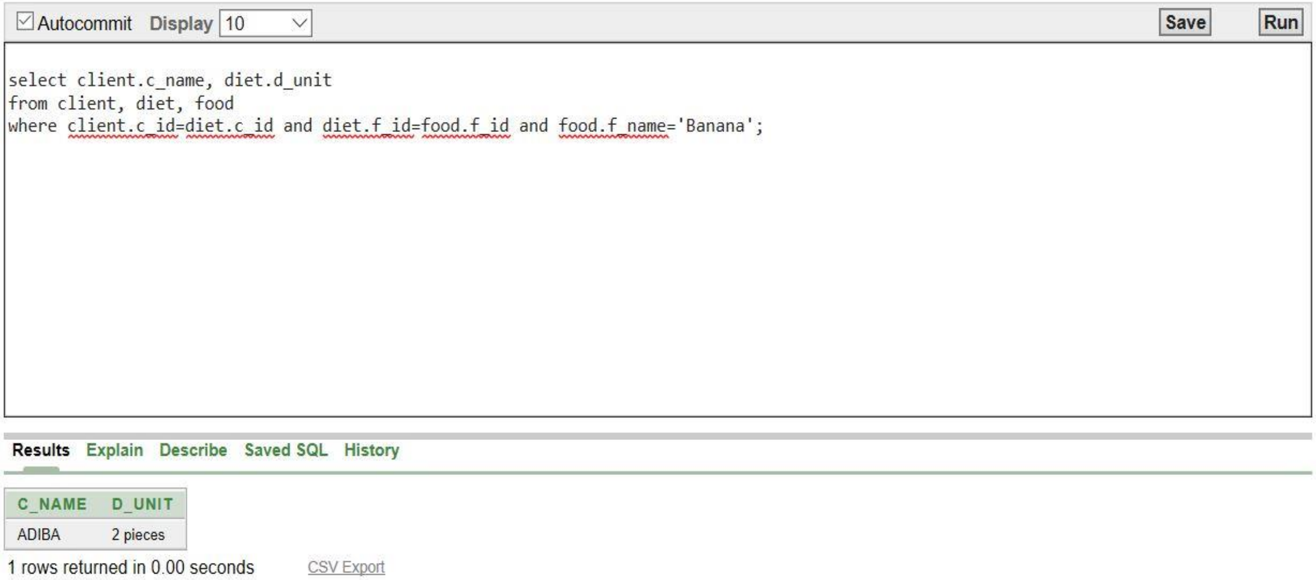
9) Find the client name and deit unit who eat food item BANANA?

Answer:

select client.c_name, diet.d_unit

from client, diet, food

where client.c_id=diet.c_id and diet.f_id=food.f_id and food.f_name='Banana';



```
select client.c_name, diet.d_unit
from client, diet, food
where client.c_id=diet.c_id and diet.f_id=food.f_id and food.f_name='Banana';
```

C_NAME	D_UNIT
ADIBA	2 pieces

1 rows returned in 0.00 seconds

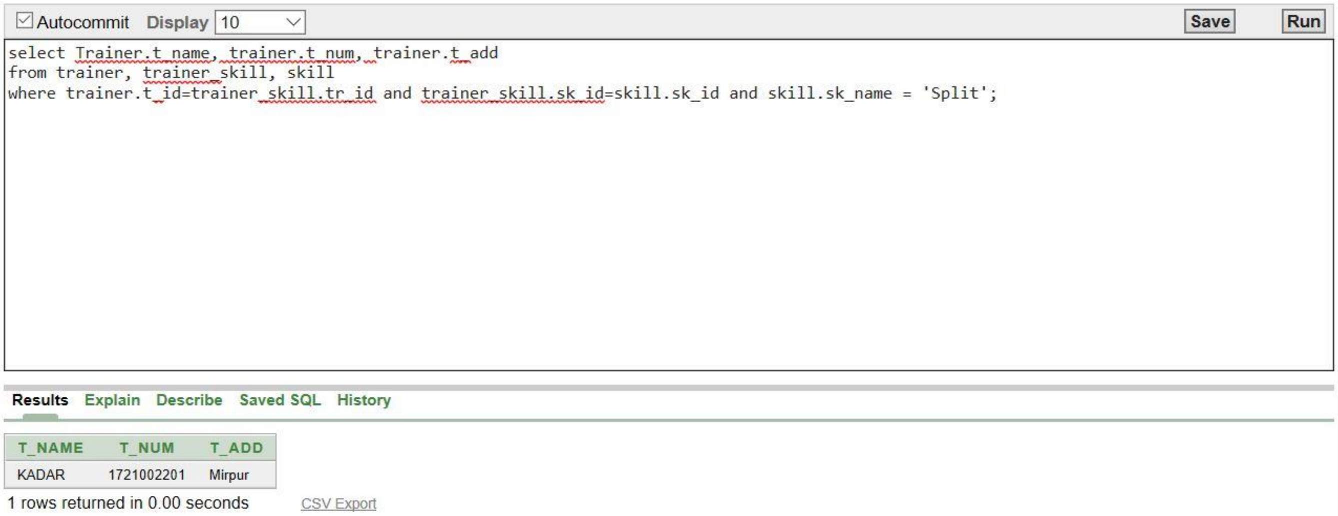
10) Find the trainer name, address and number who is special skill for SPLIT?

Answer:

select Trainer.t_name, trainer.t_num, trainer.t_add

from trainer, trainer_skill, skill

where trainer.t_id=trainer_skill.tr_id and trainer_skill.sk_id=skill.sk_id and skill.sk_name = 'Split';



```
select Trainer.t_name, trainer.t_num, trainer.t_add
from trainer, trainer_skill, skill
where trainer.t_id=trainer_skill.tr_id and trainer_skill.sk_id=skill.sk_id and skill.sk_name = 'Split';
```

T_NAME	T_NUM	T_ADD
KADAR	1721002201	Mirpur

1 rows returned in 0.00 seconds

Conclution:

Our project is about a gym management system. We think our project will be very helpful to maintaining a gym. But we also have to say that it’s not complete. There are still scope for the advancement. After the advancement it will be better and better. We know that there are no perfect thing. So if we get enough chance we hope that we can make it better. We can also add it with a gym management software to complete it. We only use oracle software here so if we want to really make it useable we have to add it with a software. Then we can use the user interface and the other things. With that it will be truly ready for the use.