American International University- Bangladesh

Summer2019-2020

Project Report

Group Name: MUSE

Advance Database Management System

Project Title: Car Shop Management System
Section: A

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Table Creation

Owner:

```
CREATE TABLE owner(
o_id number(10),
o_name varchar(30),
o_password varchar(20),
constraint pk_owner primary key(o_id)
)
```

Sequence

```
CREATE SEQUENCE seq_o_id
start with 1
increment by 1
nomaxvalue
nominvalue
Nocycle;

INSERT INTO owner VALUES (seq_o_id.nextval, 'Reaz', 'Reaz1234');
```

Manager:

```
CREATE TABLE manager(
m_id number(10),
m_name varchar(30),
m_password varchar(20),
m_sal number(10),
m_comm number(10),
o_id number(10),
constraint pk_manager primary key(m_id),
constraint fk_man_own foreign key(o_id) references owner(o_id)
)
```

Sequence

```
CREATE SEQUENCE seq_m_id
start with 1
increment by 1
nomaxvalue
nominvalue
Nocycle;

INSERT INTO manager VALUES (seq_m_id.nextval, ' Reaz ', ' Reaz1234', '45000', '5000', '1');
```

Customer:

```
CREATE TABLE customer(
u_id number(10),
u_name varchar2(30),
u_password varchar2(20),
address varchar2(10),
name varchar2(10),
mobile_no number(10),
constraint pk_customer primary key(u_id)
)
```

Sequence

```
CREATE SEQUENCE seq_u_id
start with 4
increment by 1
nomaxvalue
nominvalue
Nocycle;

INSERT INTO customer VALUES (seq_u_id.nextval, ' Reaz ', ' Reaz1234', 'Khilgaon', 'Dhaka',
'12345678');
```

Car:

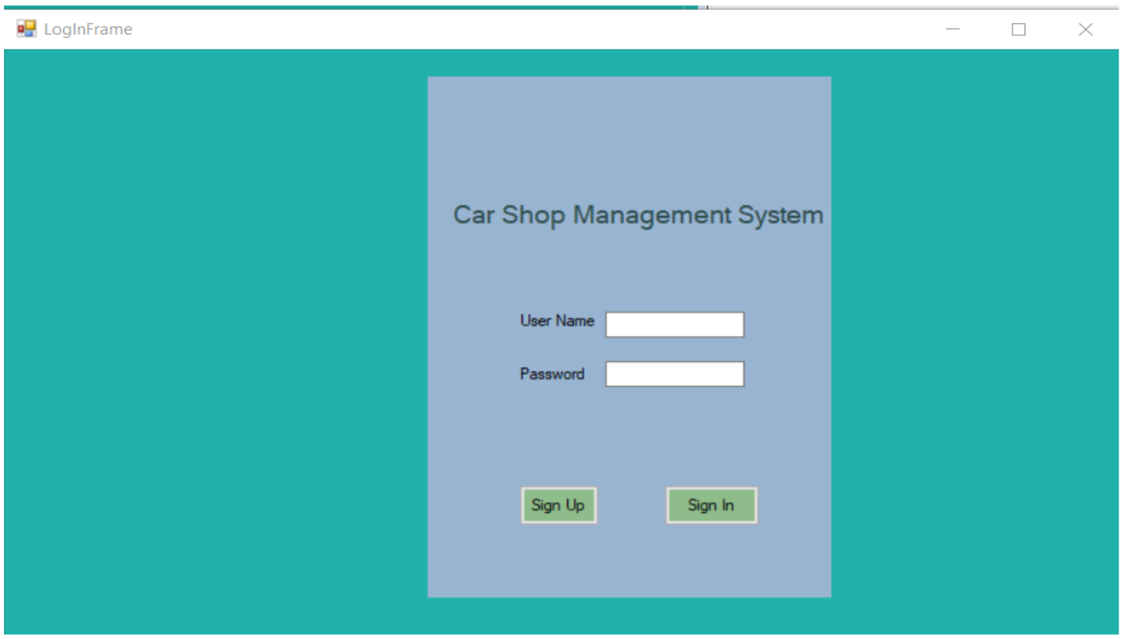
```
CREATE TABLE car(
c_id number(10),
c_name varchar(30),
price number(10),
model varchar2(20),
availability varchar2(20),
booked_id number(10),
m_id number(10),
o_id number(10),
u_id number(10),
constraint pk_car primary key(c_id),
constraint fk_car_man foreign key(m_id) references manager(m_id),
constraint fk_car_own foreign key(o_id) references owner(o_id),
constraint fk_car_cus foreign key(u_id) references customer(u_id)
)
```

Sequence

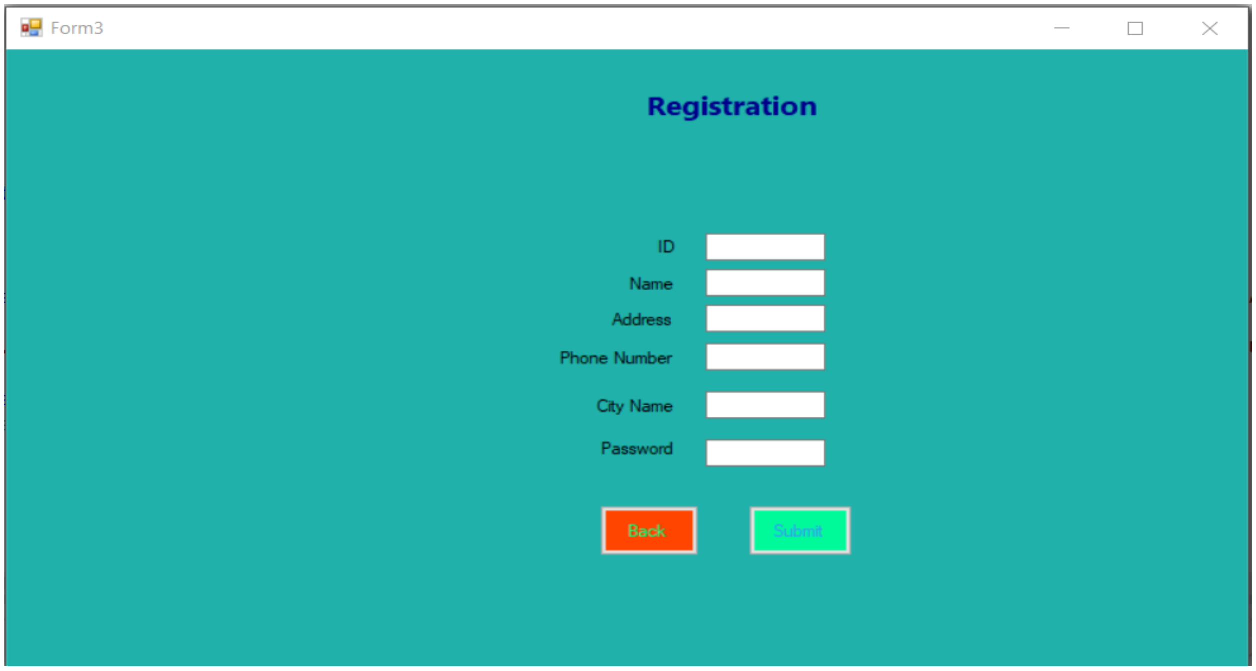
```
CREATE SEQUENCE seq_c_id
start with 1
increment by 1
nomaxvalue
nominvalue
Nocycle;

INSERT INTO car VALUES (seq_c_id.nextval, 'Ferari', '5000000', 'r1', 'yes', '1', '1', '1', '6');
```

User Interface

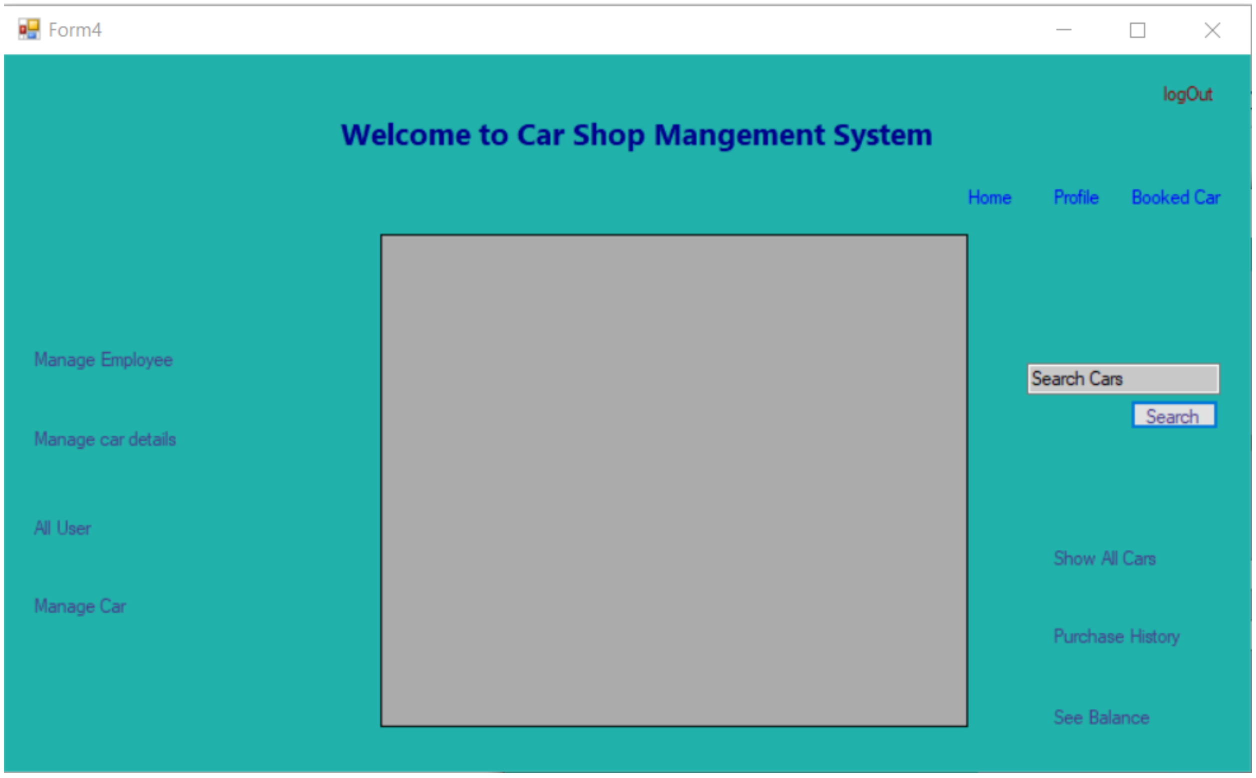
Login Page



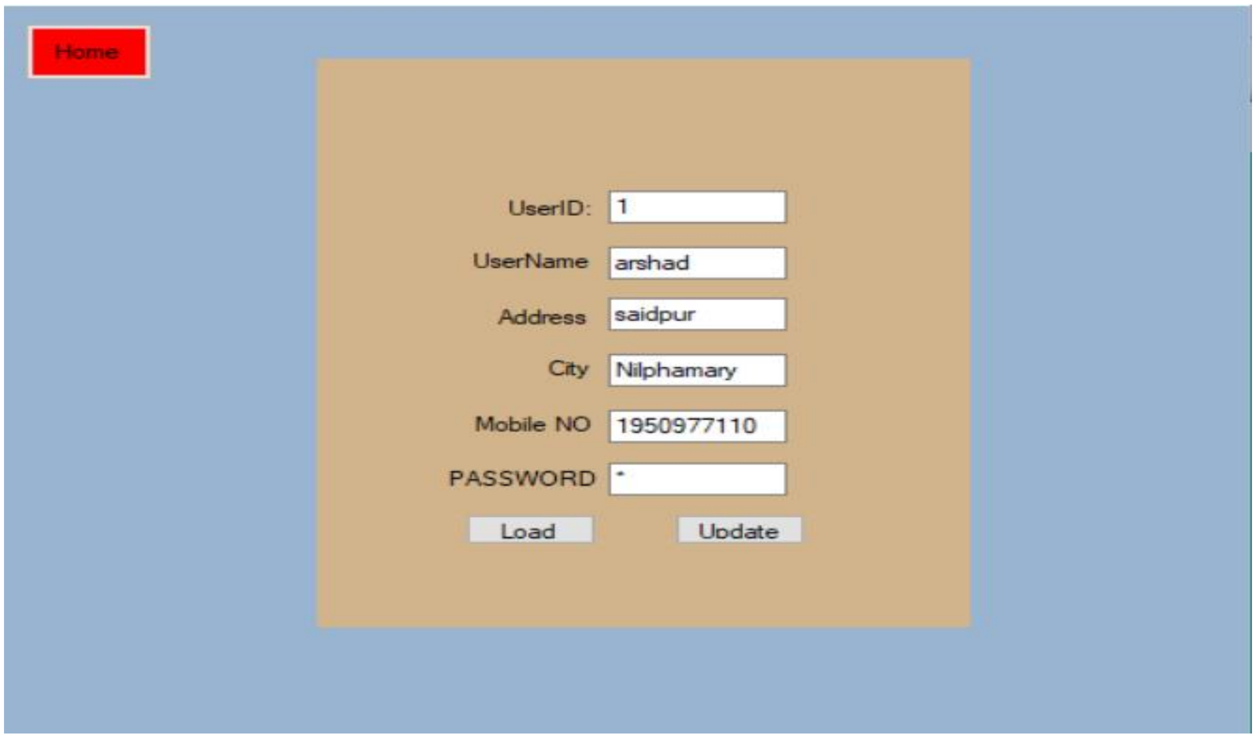
Registration Page



Owner Dashboard and User Dashboard

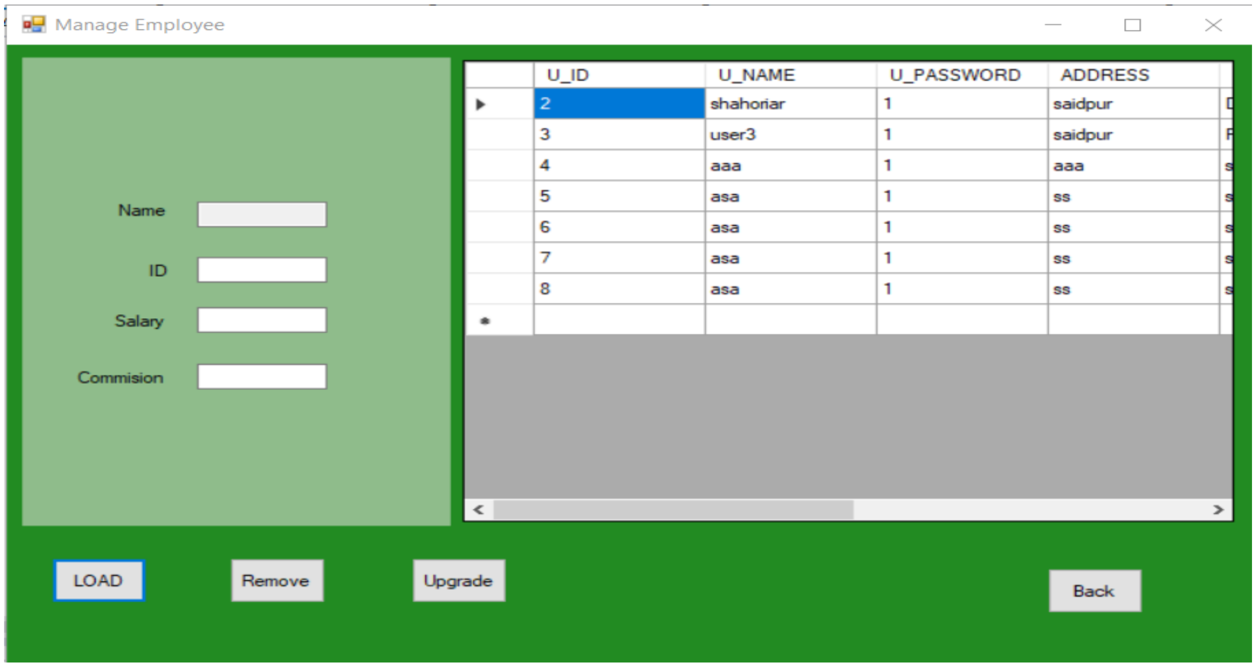


Update info



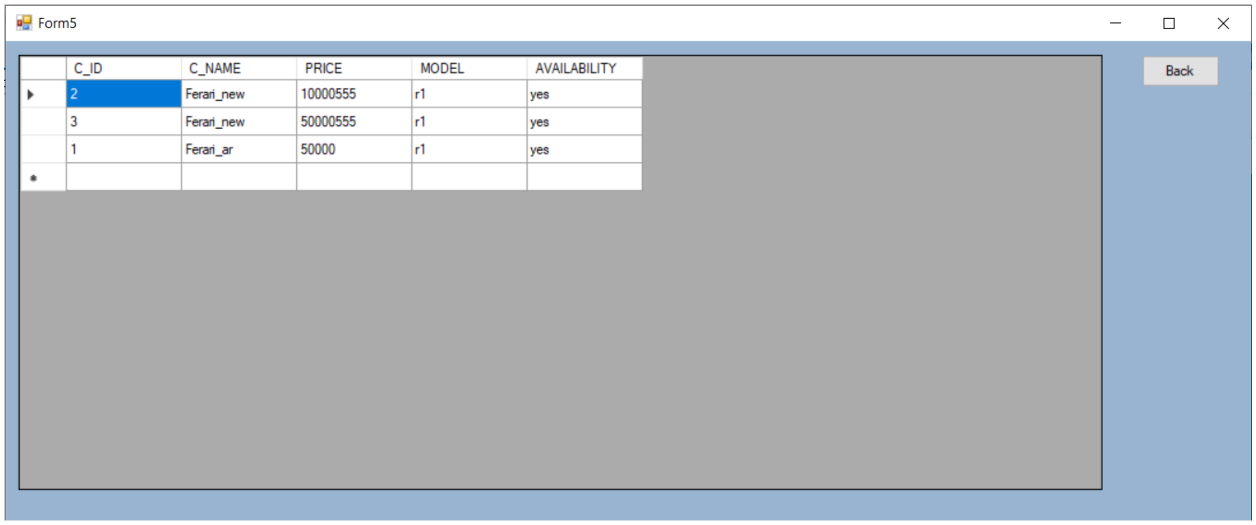
UserID:	1
UserName	arshad
Address	saidpur
City	Nilphamary
Mobile NO	1950977110
PASSWORD	*

Manage Employee



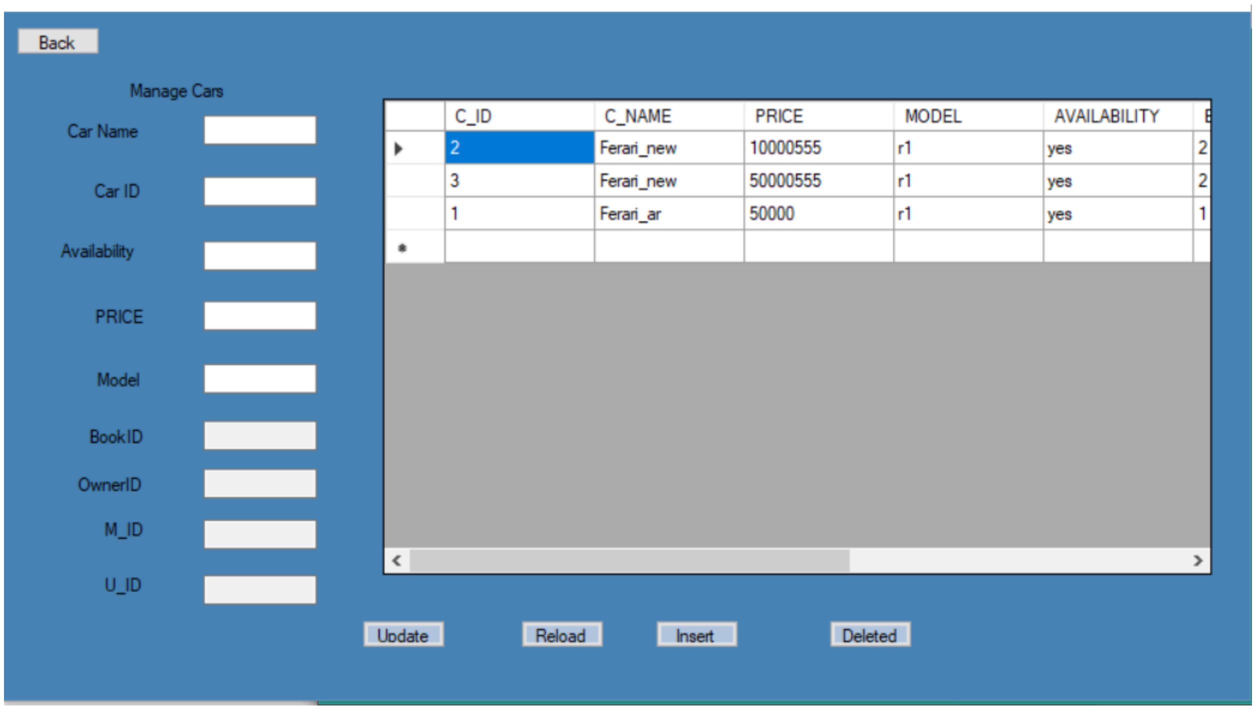
	U_ID	U_NAME	U_PASSWORD	ADDRESS	
▶	2	shahoriar	1	saidpur	D
	3	user3	1	saidpur	F
	4	aaa	1	aaa	s
	5	asa	1	ss	s
	6	asa	1	ss	s
	7	asa	1	ss	s
	8	asa	1	ss	s
*					

Show All Cars



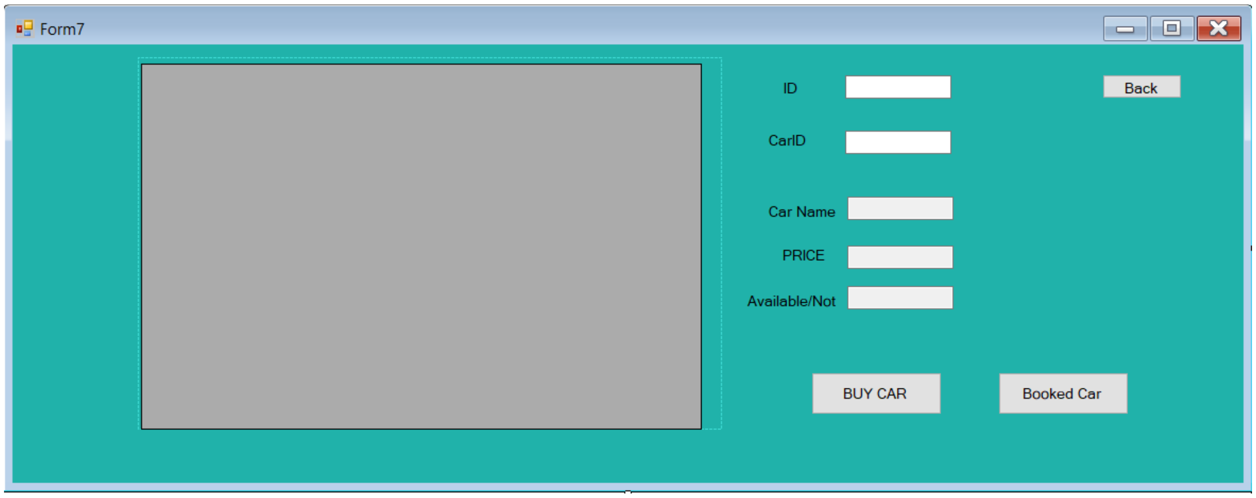
	C_ID	C_NAME	PRICE	MODEL	AVAILABILITY
▶	2	Ferari_new	10000555	r1	yes
	3	Ferari_new	50000555	r1	yes
	1	Ferari_ar	50000	r1	yes
*					

Manage Car Details



C_ID	C_NAME	PRICE	MODEL	AVAILABILITY
2	Ferari_new	10000555	r1	yes
3	Ferari_new	50000555	r1	yes
1	Ferari_ar	50000	r1	yes

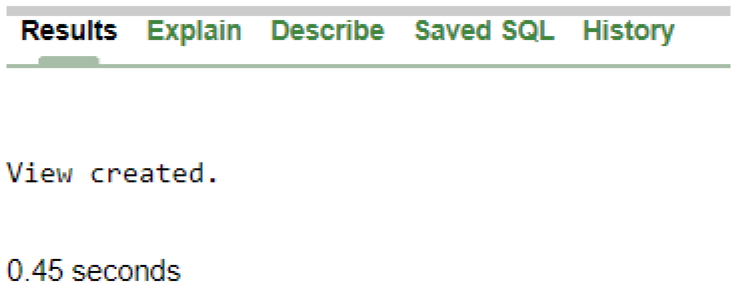
Book Car



View:

1. Create a view to display customer name and their id.

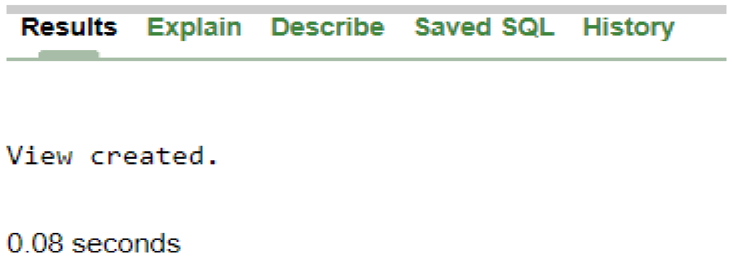
create view view_customer as select u_name, u_id from customer;



```
View created.

0.45 seconds
```

2. Create a view to display car name and their id.

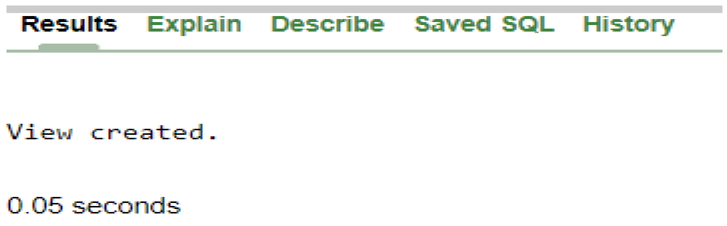
create view view_car as select c_name, c_id from car;



```
View created.

0.08 seconds
```

3. Create a view to display manager and their id.

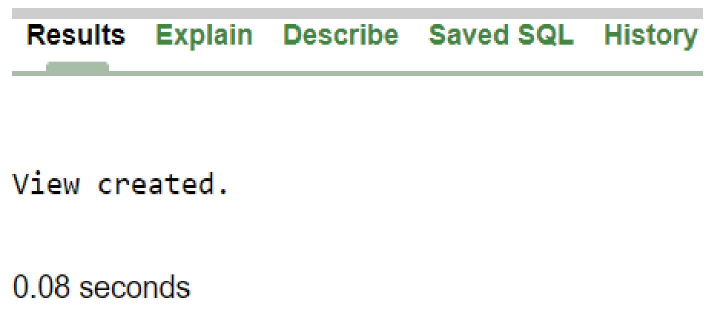
create view view_manager as select m_name, m_id from manager;



```
View created.

0.05 seconds
```

4. Create a view to display owner and their id.

create view view_owner as select o_name, o_id from owner;

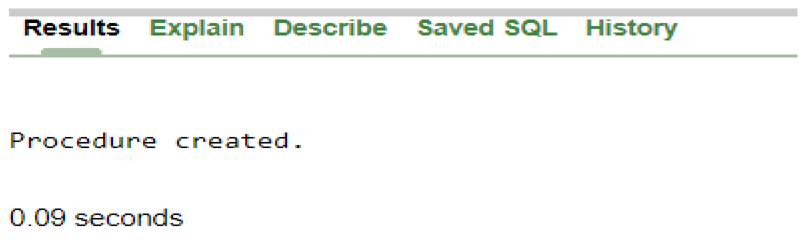


```
View created.

0.08 seconds
```

Procedure:

1. Create a procedure to update customer.

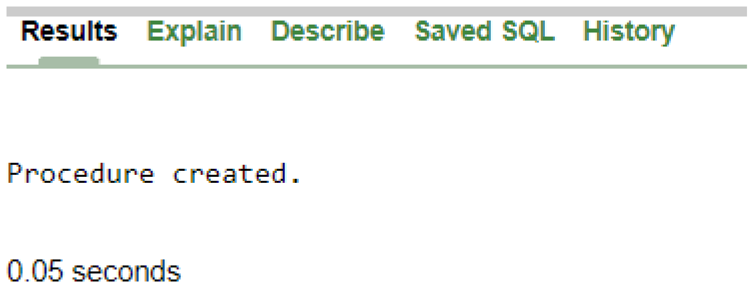
```
CREATE OR REPLACE PROCEDURE updateCustomer
(id IN NUMBER,
username IN VARCHAR2,
password IN VARCHAR2,
address IN VARCHAR2,
state IN VARCHAR2,
phone IN NUMBER)
IS
BEGIN
UPDATE customer SET u_name=username, u_password=password,
address=address, name=state, mobile_no=phone WHERE u_id=id;
END;
```



```
Procedure created.

0.09 seconds
```

2. Create a procedure to print car details.

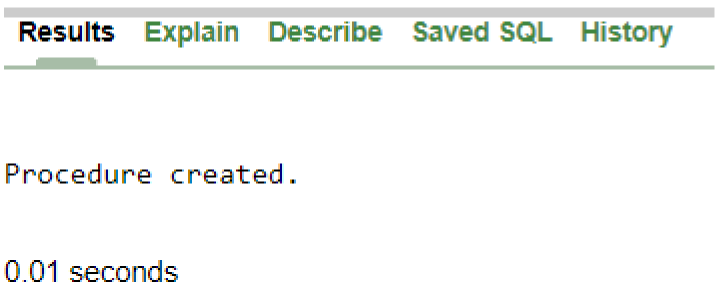
```
CREATE OR REPLACE PROCEDURE print_car
(id IN NUMBER)
IS
car_details car%ROWTYPE;
BEGIN
    SELECT * INTO car_details
    FROM car WHERE c_id=id;

    dbms_output.put_line(car_details.c_name || ' price is: ' || car_details.price || '
and Model is: ' || car_details.model);

END;
```



```
Procedure created.

0.05 seconds
```

3. Create a procedure to update owner.

```
CREATE OR REPLACE PROCEDURE updateOwner
(id IN NUMBER,
username IN VARCHAR2,
password IN VARCHAR2)
IS
BEGIN
UPDATE owner SET o_name=username, o_password=password WHERE o_id=id;
END;
```

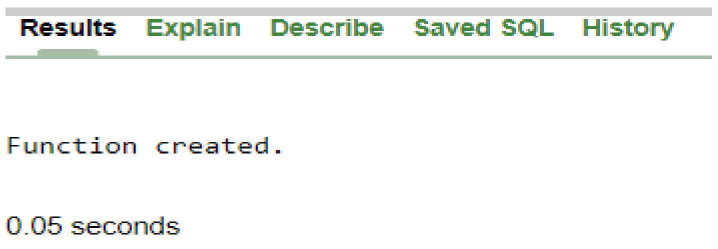


```
Procedure created.

0.01 seconds
```

Function:

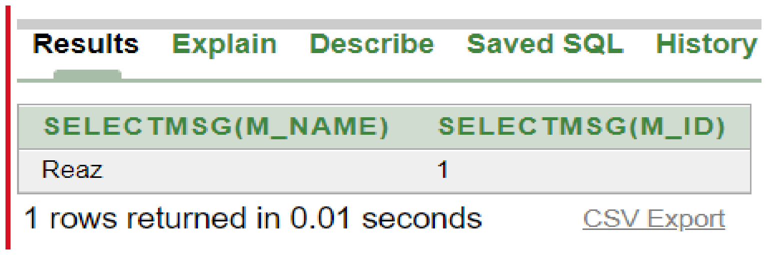
1. Create a function to display data from manager table.

```
CREATE OR REPLACE FUNCTION selectMsg(p_name IN VARCHAR2)
RETURN VARCHAR2
IS
BEGIN
RETURN (p_name);
END;
```



```
Function created.

0.05 seconds
```

```
SELECT selectMsg(m_name), selectMsg(m_id) FROM manager WHERE m_id=1;
```

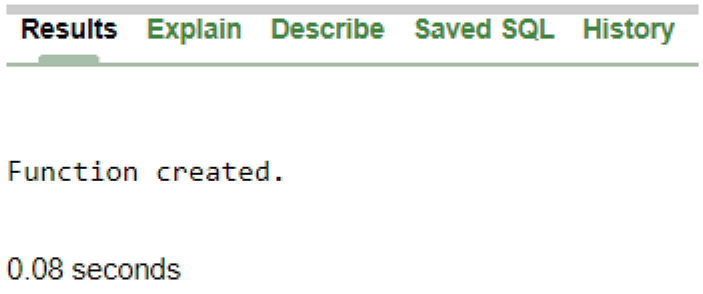


SELECTMSG(M_NAME)	SELECTMSG(M_ID)
Reaz	1

1 rows returned in 0.01 seconds

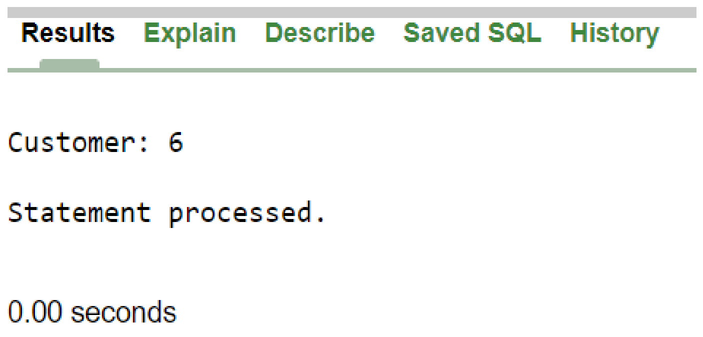
2. Create/replace a function to show the number of total customers.

```
CREATE OR REPLACE FUNCTION totalCustomer
RETURN NUMBER
IS
total NUMBER := 0;
BEGIN
        SELECT count(*) INTO total
        FROM customer;
        RETURN total;
END;
```



```
Function created.

0.08 seconds
```

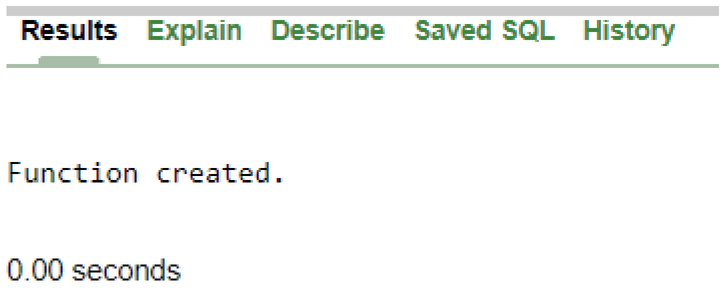
```
DECLARE
customer NUMBER(10);
BEGIN
customer := totalCustomer();
dbms_output.put_line('Customer: '||customer);
END;
```



```
Customer: 6

Statement processed.

0.00 seconds
```

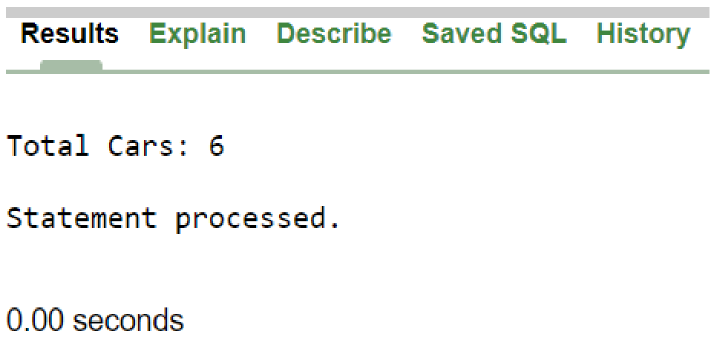
3. Create a function to display total number of cars.

```
CREATE OR REPLACE FUNCTION totalCar
return number as
   totalnum number(10);
BEGIN
   select count(c_id) into totalnum from car;
   return totalnum;
end;
```



```
Function created.

0.00 seconds
```

```
DECLARE

   totalnum number(10);

BEGIN

   totalnum:=totalCar();

   dbms_output.put_line('Total Cars: '||totalnum);

end;
```

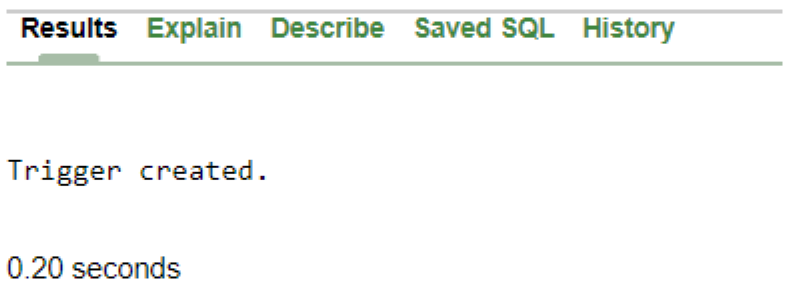


```
Total Cars: 6

Statement processed.

0.00 seconds
```

Trigger:

1. Create a trigger for any new customer inserted into the customer table.

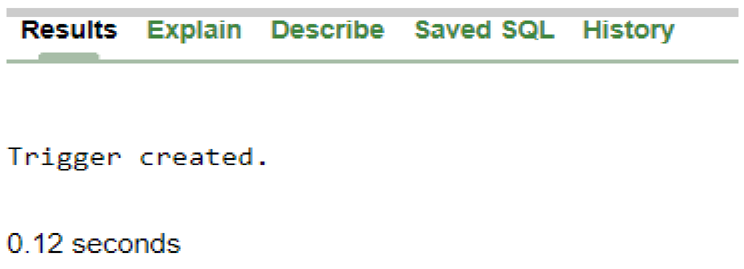
```
create trigger customer_t
after insert on customer
for each row
when (new.u_id > 0)
begin
   dbms_output.put_line('New Customer Added');
end;
```



```
Trigger created.

0.20 seconds
```

2. Create a trigger for any new manager inserted into the manager table.

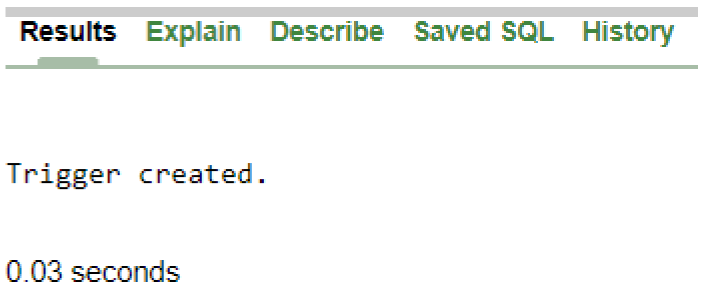
```
create trigger manager_t
after insert on manager
for each row
when (new.m_id > 0)
begin
   dbms_output.put_line('New Manager Added');
end;
```



```
Trigger created.

0.12 seconds
```

3. Create a trigger for any new car inserted into the car table.

```
create trigger car_t
after insert on car
for each row
when (new.m_id > 0)
begin
   dbms_output.put_line('New Car Added');
end;
```



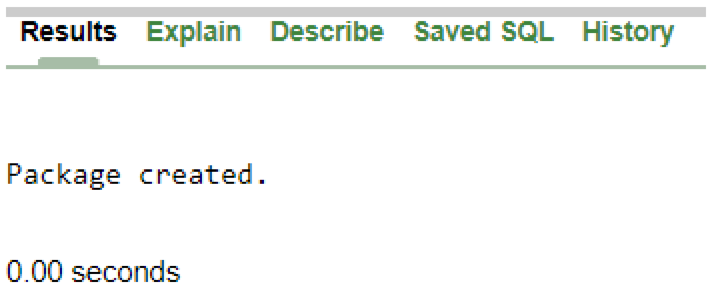
```
Trigger created.
```

0.03 seconds

Package:

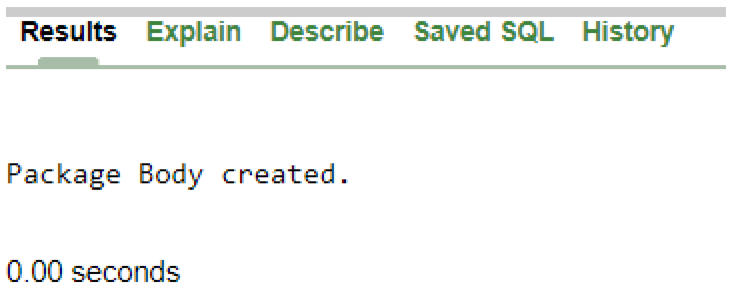
1. Create a package which has a procedure to update car model.

```
CREATE OR REPLACE PACKAGE pkg_car IS
  PROCEDURE update_model(model in varchar);
END pkg_car;
```



```
Package created.

0.00 seconds
```

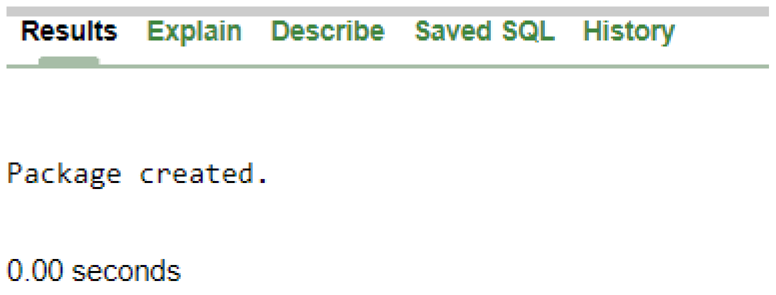
```
CREATE OR REPLACE PACKAGE BODY pkg_car IS
   PROCEDURE update_model(model in varchar)
   as
   BEGIN
    update car set model=model;
    dbms_output.put_line(model);
   end;
END pkg_car;
```



```
Package Body created.

0.00 seconds
```

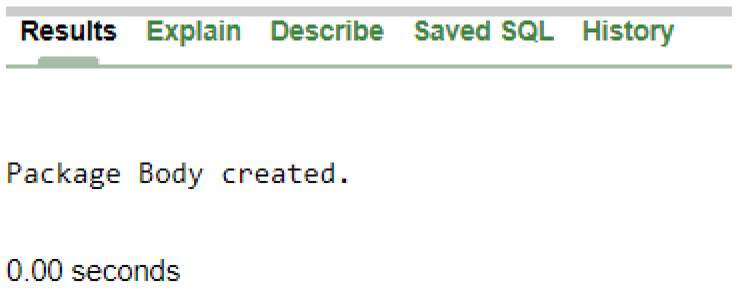
2. Create a package with a procedure to update salary of the managers.

```
CREATE OR REPLACE PACKAGE pkg_manager IS
 PROCEDURE update_salary(salary in number);

  END pkg_manager;
```



```
Package created.

0.00 seconds
```

```
CREATE OR REPLACE PACKAGE BODY pkg_manager IS
 PROCEDURE update_salary(salary in number)
  as
    BEGIN
   update manager set m_sal=salary;
   dbms_output.put_line(salary);
  end;
END pkg_manager;
```



```
Package Body created.

0.00 seconds
```