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**American International University - Bangladesh**

**Project Name: Car Ride Hailing Management System**

**Group Members**

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

**Section: L**

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# **Introduction**

The project entitled as “CAR RIDE HAILING MANAGEMENT SYSTEM” is mainly developed for the overall management of the ‘Car Ride Hailing’. The project is helpful to manage all the information of Owners, Cars, Drivers and Customers. In our Database System We can add customer information as well as drivers and cars also. The database is also helpful for store the information of the different types of Cars for reservation. Customer can also rent a car. This application is created for easy and quick processing to find a car, driver details and customer details. Anyone can easily use our system. We can find which driver or which car was involved with reservation or renting.

# Scenario Description

In a car ride hailing management system a customer may rent many cars. One car may be rented by exactly one customer. A customer is identified by a Customer cell number. The system also stores customer name, address. A customer address is composed of house number, street number and city. A car is identified by car id. Car brand and car type are also stored. There may be multiple brand and type of a car. While renting, the time of the renting of the car is stored. A customer may also reserve a car. A car can be reserved by many customers. To find the priority of the reservation the reserve id, reserve date, reserve time are also stored. A car is owned by at least one owner. An owner may own many cars but the system stores information of those owners of who has owned at least one car stored in the system. To identify the owner the system stores owner id. It also stores owner name, contact and address. An owner address is composed of house number, street number and city. A driver may drive a car. A driver is identified by driver id. The system also stores driver name, contact, license number and address. A driver address is composed of house number, street number and city.

# ER Diagram

**Diagram

Description automatically generated**

# Normalization

**Rent:**

UNF

Rent (Car\_ID, Car\_Brand, Car\_Type, Customer\_CellNo., Customer\_Name, Customer\_HouseNo, Customer\_StreetNo, Customer\_City, Rent\_Time)

1NF

Car\_Brand, Car\_Type are multivalued attributes.

1. Car\_ID, Car\_Brand, Car\_Type, Customer\_CellNo., Customer\_Name, Customer\_HouseNo, Customer\_StreetNo, Customer\_City, Rent\_Time

2NF

1. Car\_ID, Car\_Brand, Car\_Type

2. Customer\_CellNo., Customer\_Name, Customer\_HouseNo, Customer\_StreetNo, Customer\_City

3. Rent\_Time

3NF

1. Car\_ID, Car\_Brand, Car\_Type,

2. Customer\_CellNo., Customer\_Name

3. Customer\_HouseNo, Customer\_StreetNo, Customer\_City

4. Rent\_Time

Table Creation

1. Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3, Customer\_CellNo.

2. Customer\_CellNo., Customer\_Name, CustomerAdd\_ID,

3. CustomerAdd\_ID, Customer\_HouseNo, Customer\_StreetNo, Customer\_City

4. Car\_ID, Customer\_CellNo., Rent\_Time

**Own:**

UNF

Own (Car\_ID, Car\_Brand, Car\_Type, Owner\_ID, Owner\_name, Owner\_Contact, Owner\_HouseNo, Owner\_StreetNo, Owner\_City)

1NF

Car\_Brand, Car\_Type, Owner\_contact are multivalued attributes.

1. Car\_ID, Car\_Brand, Car\_Type, Owner\_ID, Owner\_name, Owner\_Contact, Owner\_HouseNo, Owner\_StreetNo, Owner\_City

2NF

1. Car\_ID, Car\_Brand, Car\_Type

2. Owner\_ID, Owner\_name, Owner\_Contact, Owner\_HouseNo, Owner\_StreetNo, Owner\_City

3NF

1. Car\_ID, Car\_Brand, Car\_Type

2. Owner\_ID, Owner\_name, Owner\_Contact

3. Owner\_HouseNo, Owner\_StreetNo, Owner\_City

Table Creation

1. Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3, Owner\_ID

2. Owner\_ID, Owner\_name, Owner\_Contact, OwnerAdd\_ID

3. OwnerAdd\_ID, Owner\_HouseNo, Owner\_StreetNo, Owner\_City

**Reserve:**

UNF

Reserve (Car\_ID, Car\_Brand, Car\_Type, Customer\_CellNo., Customer\_Name, Customer\_HouseNo, Customer\_StreetNo, Customer\_City, Reserve\_date, Reserve\_ID, Reserve\_Time)

1NF

Car\_Brand, Car\_Type are multivalued attributes.

1. Car\_ID, Car\_Brand, Car\_Type, Customer\_CellNo., Customer\_Name, Customer\_HouseNo, Customer\_StreetNo, Customer\_City, Rent\_Time

2NF

1. Car\_ID, Car\_Brand, Car\_Type

2. Customer\_CellNo., Customer\_Name, Customer\_HouseNo, Customer\_StreetNo, Customer\_City

3. Reserve\_date, Reserve\_ID, Reserve\_Time

3NF

1. Car\_ID, Car\_Brand, Car\_Type,

2. Customer\_CellNo., Customer\_Name, Customer\_HouseNo, Customer\_StreetNo, Customer\_City

3. Reserve\_date, Reserve\_ID, Reserve\_Time

Table Creation

1. Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3, Customer\_CellNo.

2. Customer\_CellNo., Customer\_Name, CustomerAdd\_ID

3. CustomerAdd\_ID, Customer\_HouseNo, Customer\_StreetNo, Customer\_City

4. Car\_ID, Customer\_CellNo., Reserve\_date, Reserve\_ID, Reserve\_Time

**Drive:**

UNF

Drive (Car\_ID, Car\_Brand, Car\_Type, Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, Driver\_HouseNo, Driver\_StreetNo, Driver\_City)

1NF

Car\_Brand, Car\_Type are multi valued attribute.

Car\_ID, Car\_Brand, Car\_Type, Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, Driver\_HouseNo, Driver\_StreetNo, Driver\_City

2NF

1. Car\_ID, Car\_Brand, Car\_Type

2. Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, Driver\_HouseNo, Driver\_StreetNo, Driver\_City

3NF

1. Car\_ID, Car\_Brand, Car\_Type,

2. Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact

3. Driver\_HouseNo, Driver\_StreetNo, Driver\_City

Table Creation

1. Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3, Driver\_ID.

2. Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, DriverAdd\_ID

3. DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City

**Temporary Tables**

1. Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3, **Customer\_CellNo.**

2. ~~Customer\_CellNo., Customer\_Name,~~ **~~CustomerAdd\_ID~~**

3. CustomerAdd\_ID, Customer\_HouseNo, Customer\_StreetNo, Customer\_City

4. **Car\_ID, Customer\_CellNo.,** Rent\_Time

5. ~~Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,~~ **~~Owner\_ID~~**

6. Owner\_ID, Owner\_name, Owner\_Contact, **OwnerAdd\_ID**

7. OwnerAdd\_ID, Owner\_HouseNo, Owner\_StreetNo, Owner\_City

8. ~~Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,~~ **~~Customer\_CellNo.~~**

9. Customer\_CellNo., Customer\_Name, **CustomerAdd\_ID**

10. ~~CustomerAdd\_ID, Customer\_HouseNo, Customer\_StreetNo, Customer\_City~~

11. **Car\_ID, Customer\_CellNo.,** Reserve\_date, Reserve\_ID, Reserve\_Time

12. ~~Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,~~ **~~Driver\_ID.~~**

13. Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, **DriverAdd\_ID**

14. DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City

**Final Tables**

1. Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3, **Customer\_CellNo., Owner\_ID, Driver\_ID.**

2. CustomerAdd\_ID, Customer\_HouseNo, Customer\_StreetNo, Customer\_City

3. **Car\_ID, Customer\_CellNo.,** Rent\_Time

4. Owner\_ID, Owner\_name, Owner\_Contact, **OwnerAdd\_ID**

5. OwnerAdd\_ID, Owner\_HouseNo, Owner\_StreetNo, Owner\_City

6. Customer\_CellNo., Customer\_Name, **CustomerAdd\_ID**

7. **Car\_ID, Customer\_CellNo.,** Reserve\_date, Reserve\_ID, Reserve\_Time

8. Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, **DriverAdd\_ID**

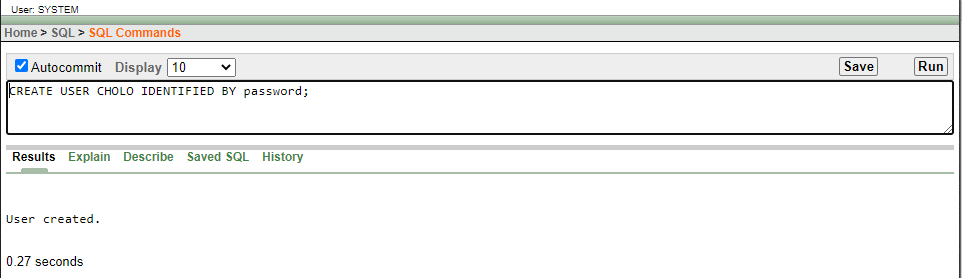
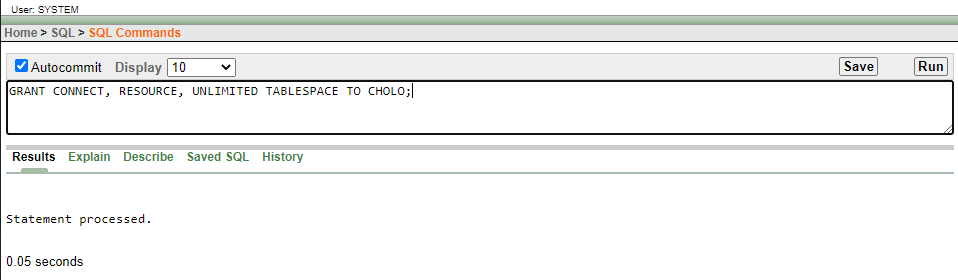
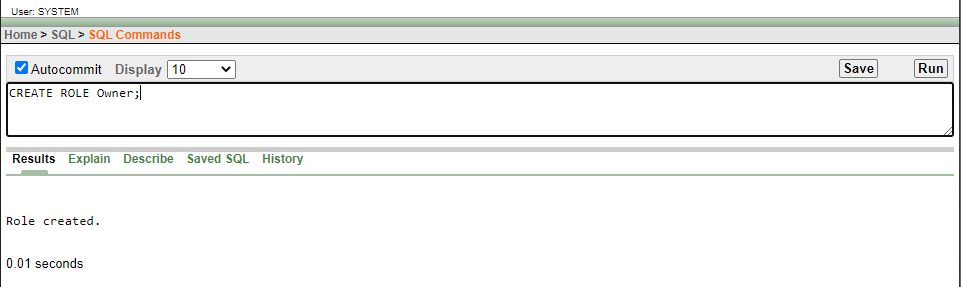
9. DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City

# **Schema Diagram**

**Diagram

Description automatically generated**

# **Table Creation**

1. CREATE USER CHOLO IDENTIFIED BY password; 
2. GRANT CONNECT, RESOURCE, UNLIMITED TABLESPACE TO CHOLO; 
3. CREATE ROLE Owner; 

After Login into User ID CHOLO

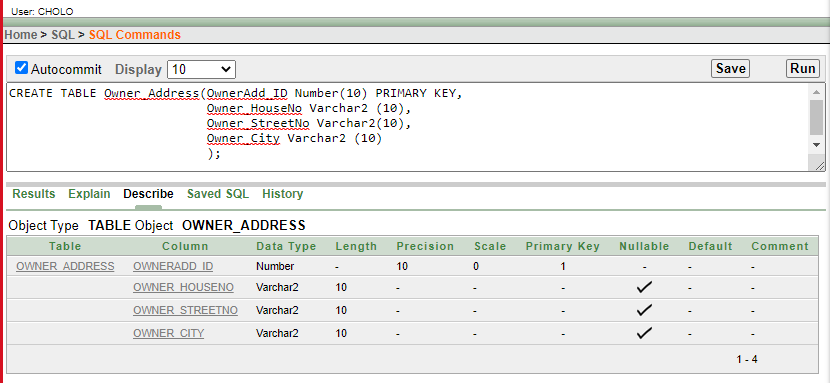
4. CREATE TABLE Owner\_Address(OwnerAdd\_ID Number(10) PRIMARY KEY,

Owner\_HouseNo Varchar2 (10),

Owner\_StreetNo Varchar2(10),

Owner\_City Varchar2 (10)

);



5. CREATE TABLE Owner(Owner\_ID Number(10) PRIMARY KEY,

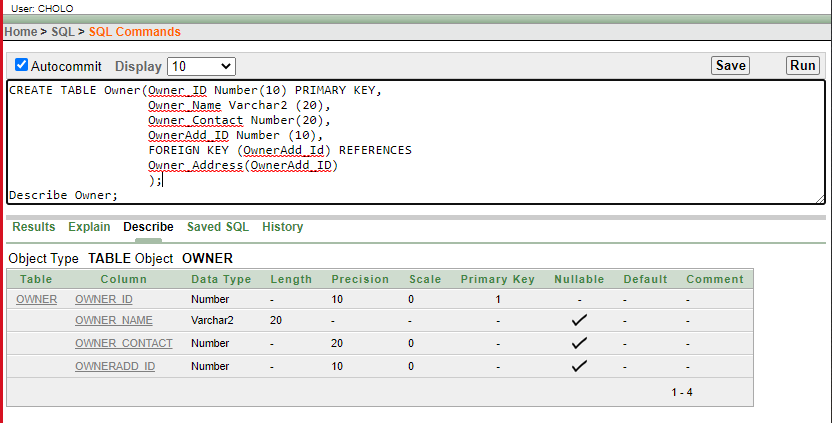
Owner\_Name Varchar2 (20),

Owner\_Contact Number(20),

OwnerAdd\_ID Number (10),

FOREIGN KEY (OwnerAdd\_Id) REFERENCES

Owner\_Address(OwnerAdd\_ID)

); 

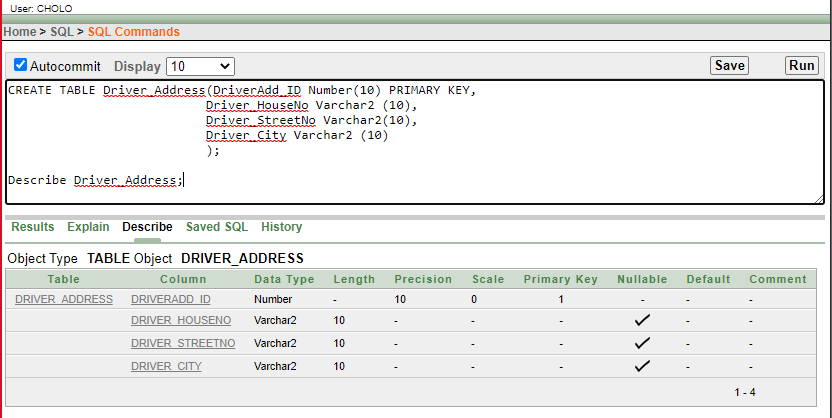
6. CREATE TABLE Driver\_Address(DriverAdd\_ID Number(10) PRIMARY KEY,

Driver\_HouseNo Varchar2 (10),

Driver\_StreetNo Varchar2(10),

Driver\_City Varchar2 (10)

);



7. CREATE TABLE Driver(Driver\_ID Number(10) PRIMARY KEY,

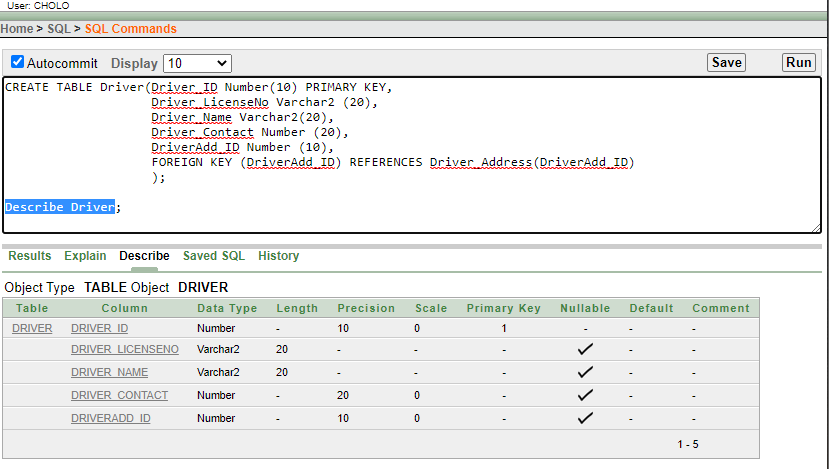
Driver\_LicenseNo Varchar2 (20),

Driver\_Name Varchar2(20),

Driver\_Contact Number (20),

DriverAdd\_ID Number (10),

FOREIGN KEY (DriverAdd\_ID) REFERENCES Driver\_Address(DriverAdd\_ID)

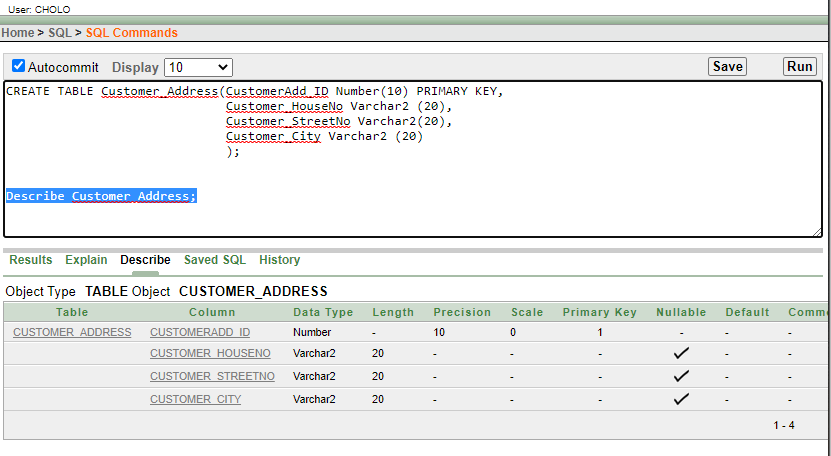
); 

8. CREATE TABLE Customer\_Address(CustomerAdd\_ID Number(10) PRIMARY KEY,

Customer\_HouseNo Varchar2 (20),

Customer\_StreetNo Varchar2(20),

Customer\_City Varchar2 (20)

); 

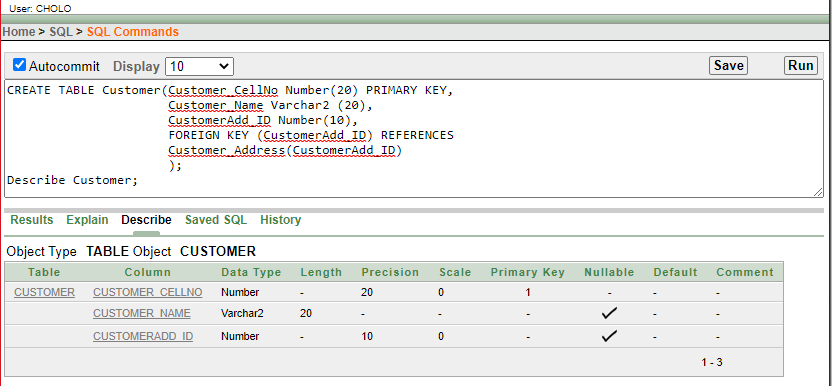
9. CREATE TABLE Customer(Customer\_CellNo Number(20) PRIMARY KEY,

Customer\_Name Varchar2 (20),

CustomerAdd\_ID Number(10),

FOREIGN KEY (CustomerAdd\_ID) REFERENCES

Customer\_Address(CustomerAdd\_ID)

); 

10. CREATE TABLE Car(Car\_ID Number(10) PRIMARY KEY,

Car\_Brand1 Varchar2 (10),

Car\_Brand2 Varchar2 (10),

Car\_Brand3 Varchar2 (10),

Car\_Type1 Varchar2 (10),

Car\_Type2 Varchar2 (10),

Car\_Type3 Varchar2 (10),

Customer\_CellNo Number (20),

Owner\_ID Number(10),

Driver\_ID Number(10),

FOREIGN KEY (Customer\_CellNo) REFERENCES Customer(Customer\_CellNo),

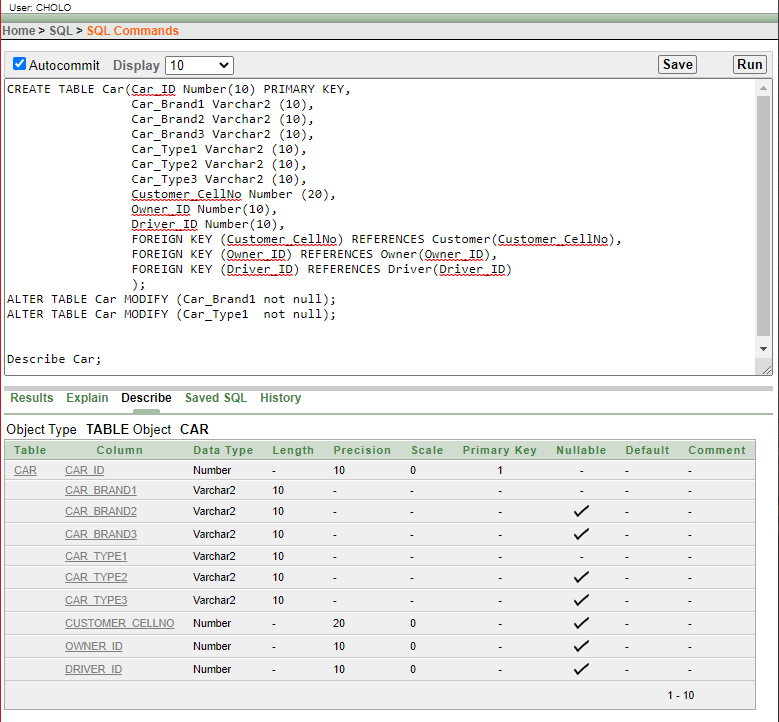
FOREIGN KEY (Owner\_ID) REFERENCES Owner(Owner\_ID),

FOREIGN KEY (Driver\_ID) REFERENCES Driver(Driver\_ID)

);

ALTER TABLE Car MODIFY (Car\_Brand1 not null);

ALTER TABLE Car MODIFY (Car\_Type1 not null);



11. CREATE TABLE Rent (Car\_ID number(10),

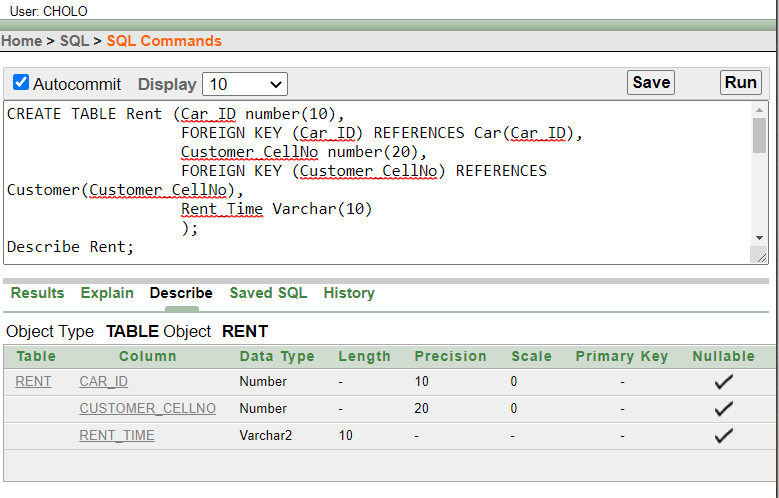
FOREIGN KEY (Car\_ID) REFERENCES Car(Car\_ID),

Customer\_CellNo number(20),

FOREIGN KEY (Customer\_CellNo) REFERENCES Customer(Customer\_CellNo),

Rent\_Time Varchar(10)

);



12. CREATE TABLE Reserve (Car\_ID Number(10),

FOREIGN KEY (Car\_ID) REFERENCES Car(Car\_ID),

Customer\_CellNo Number(20),

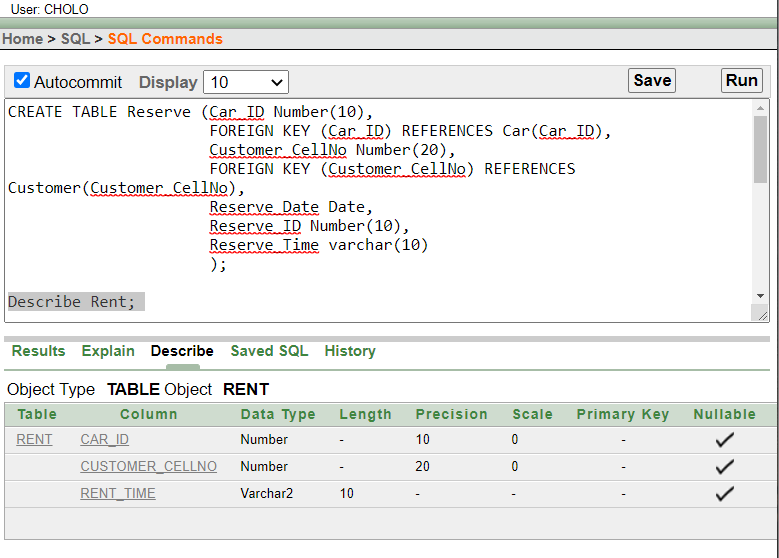
FOREIGN KEY (Customer\_CellNo) REFERENCES Customer(Customer\_CellNo),

Reserve\_Date Date,

Reserve\_ID Number(10),

Reserve\_Time varchar(10)

);



**Create Sequence**

1. CREATE SEQUENCE Owner\_Owner\_ID

INCREMENT BY 1

START WITH 1

MAXVALUE 500

NOCACHE

NOCYCLE;

2. CREATE SEQUENCE Owner\_Address\_OwnerAdd\_ID

INCREMENT BY 1

START WITH 1

MAXVALUE 500

NOCACHE

NOCYCLE;

3. CREATE SEQUENCE Driver\_Driver\_ID

INCREMENT BY 1

START WITH 1

MAXVALUE 500

NOCACHE

NOCYCLE;

4. CREATE SEQUENCE Driver\_DriverAdd\_ID

INCREMENT BY 1

START WITH 1

MAXVALUE 600

NOCACHE

NOCYCLE;

5. CREATE SEQUENCE Car\_Car\_ID

INCREMENT BY 1

START WITH 1

MAXVALUE 1000

NOCACHE

NOCYCLE;

# **Data Insertion**

1. **Owner\_Address**

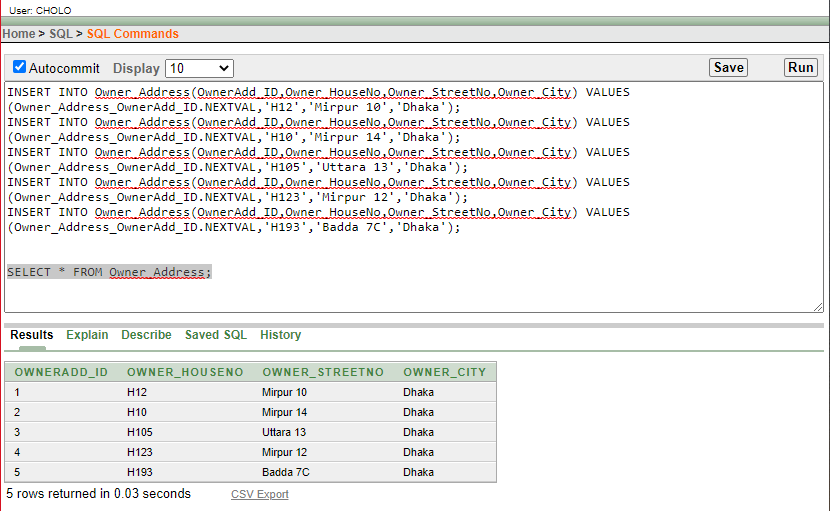
INSERT INTO Owner\_Address(OwnerAdd\_ID,Owner\_HouseNo,Owner\_StreetNo,Owner\_City) VALUES (Owner\_Address\_OwnerAdd\_ID.NEXTVAL,'H12','Mirpur 10','Dhaka');

INSERT INTO Owner\_Address(OwnerAdd\_ID,Owner\_HouseNo,Owner\_StreetNo,Owner\_City) VALUES (Owner\_Address\_OwnerAdd\_ID.NEXTVAL,'H10','Mirpur 14','Dhaka');

INSERT INTO Owner\_Address(OwnerAdd\_ID,Owner\_HouseNo,Owner\_StreetNo,Owner\_City) VALUES (Owner\_Address\_OwnerAdd\_ID.NEXTVAL,'H105','Uttara 13','Dhaka');

INSERT INTO Owner\_Address(OwnerAdd\_ID,Owner\_HouseNo,Owner\_StreetNo,Owner\_City) VALUES (Owner\_Address\_OwnerAdd\_ID.NEXTVAL,'H123','Mirpur 12','Dhaka');

INSERT INTO Owner\_Address(OwnerAdd\_ID,Owner\_HouseNo,Owner\_StreetNo,Owner\_City) VALUES (Owner\_Address\_OwnerAdd\_ID.NEXTVAL,'H193','Badda 7C','Dhaka');



1. **Owner**

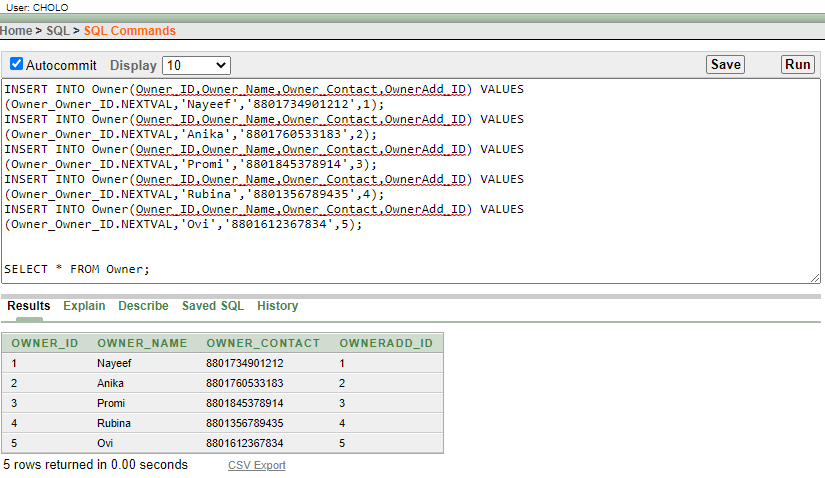
INSERT INTO Owner(Owner\_ID,Owner\_Name,Owner\_Contact,OwnerAdd\_ID) VALUES (Owner\_Owner\_ID.NEXTVAL,'Nayeef','8801734901212',1);

INSERT INTO Owner(Owner\_ID,Owner\_Name,Owner\_Contact,OwnerAdd\_ID) VALUES (Owner\_Owner\_ID.NEXTVAL,'Anika','8801760533183',2);

INSERT INTO Owner(Owner\_ID,Owner\_Name,Owner\_Contact,OwnerAdd\_ID) VALUES (Owner\_Owner\_ID.NEXTVAL,'Promi','8801845378914',3);

INSERT INTO Owner(Owner\_ID,Owner\_Name,Owner\_Contact,OwnerAdd\_ID) VALUES (Owner\_Owner\_ID.NEXTVAL,'Rubina','8801356789435',4);

INSERT INTO Owner(Owner\_ID,Owner\_Name,Owner\_Contact,OwnerAdd\_ID) VALUES (Owner\_Owner\_ID.NEXTVAL,'Ovi','8801612367834',5);



1. Driver\_Address

INSERT INTO Driver\_Address(DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City) VALUES (Driver\_DriverAdd\_ID.NEXTVAL,'H#33','Mirpur 1','Dhaka');

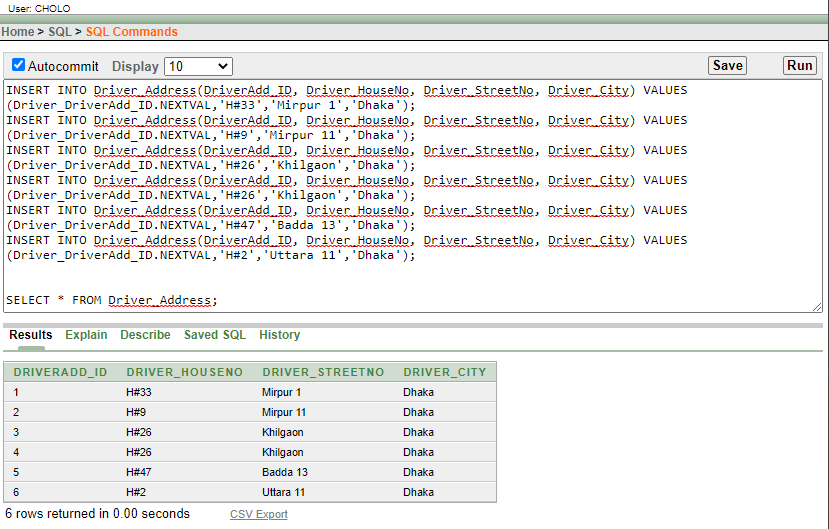
INSERT INTO Driver\_Address(DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City) VALUES (Driver\_DriverAdd\_ID.NEXTVAL,'H#9','Mirpur 11','Dhaka');

INSERT INTO Driver\_Address(DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City) VALUES (Driver\_DriverAdd\_ID.NEXTVAL,'H#26','Khilgaon','Dhaka');

INSERT INTO Driver\_Address(DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City) VALUES (Driver\_DriverAdd\_ID.NEXTVAL,'H#26','Khilgaon','Dhaka');

INSERT INTO Driver\_Address(DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City) VALUES (Driver\_DriverAdd\_ID.NEXTVAL,'H#47','Badda 13','Dhaka');

INSERT INTO Driver\_Address(DriverAdd\_ID, Driver\_HouseNo, Driver\_StreetNo, Driver\_City) VALUES (Driver\_DriverAdd\_ID.NEXTVAL,'H#2','Uttara 11','Dhaka');



1. Driver

INSERT INTO Driver(Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, DriverAdd\_ID) VALUES (Driver\_Driver\_ID.NEXTVAL, 'N167T895','Abdur Rahim','8801690685435',1);

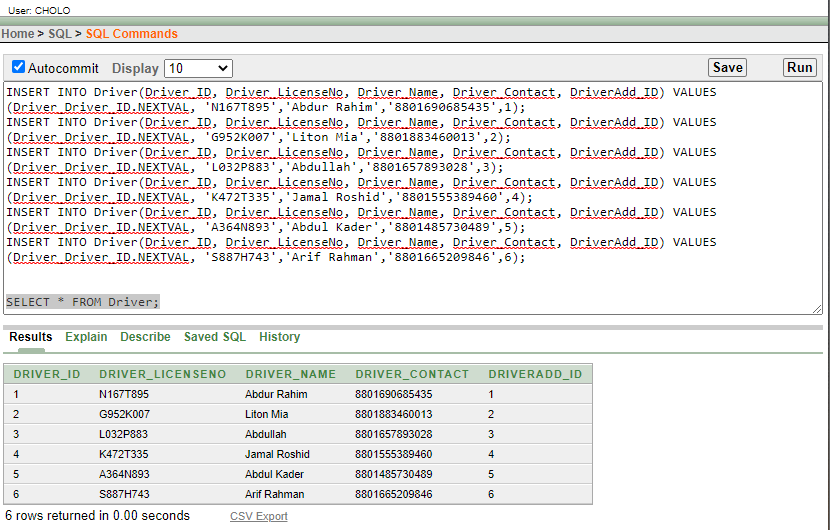
INSERT INTO Driver(Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, DriverAdd\_ID) VALUES (Driver\_Driver\_ID.NEXTVAL, 'G952K007','Liton Mia','8801883460013',2);

INSERT INTO Driver(Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, DriverAdd\_ID) VALUES (Driver\_Driver\_ID.NEXTVAL, 'L032P883','Abdullah','8801657893028',3);

INSERT INTO Driver(Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, DriverAdd\_ID) VALUES (Driver\_Driver\_ID.NEXTVAL, 'K472T335','Jamal Roshid','8801555389460',4);

INSERT INTO Driver(Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, DriverAdd\_ID) VALUES (Driver\_Driver\_ID.NEXTVAL, 'A364N893','Abdul Kader','8801485730489',5);

INSERT INTO Driver(Driver\_ID, Driver\_LicenseNo, Driver\_Name, Driver\_Contact, DriverAdd\_ID) VALUES (Driver\_Driver\_ID.NEXTVAL, 'S887H743','Arif Rahman','8801665209846',6);



1. Customer\_Address

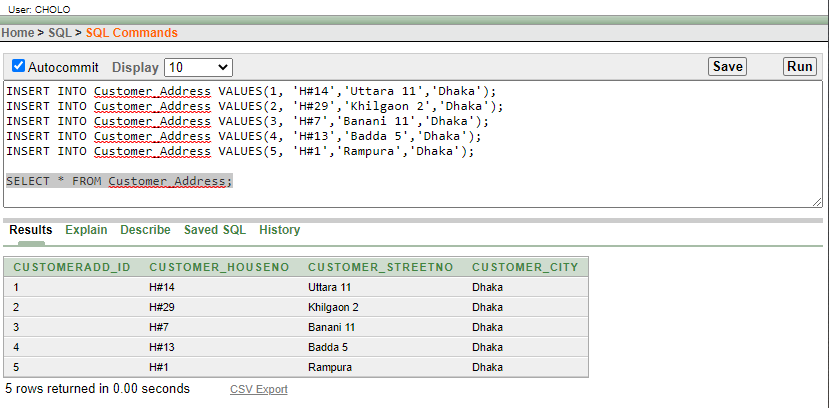
INSERT INTO Customer\_Address VALUES(1, 'H#14','Uttara 11','Dhaka');

INSERT INTO Customer\_Address VALUES(2, 'H#29','Khilgaon 2','Dhaka');

INSERT INTO Customer\_Address VALUES(3, 'H#7','Banani 11','Dhaka');

INSERT INTO Customer\_Address VALUES(4, 'H#13','Badda 5','Dhaka');

INSERT INTO Customer\_Address VALUES(5, 'H#1','Rampura','Dhaka');



1. Customer

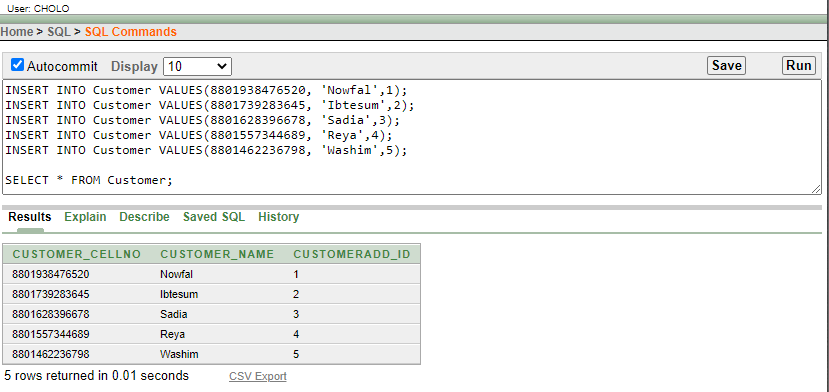
INSERT INTO Customer VALUES(8801938476520, 'Nowfal',1);

INSERT INTO Customer VALUES(8801739283645, 'Ibtesum',2);

INSERT INTO Customer VALUES(8801628396678, 'Sadia',3);

INSERT INTO Customer VALUES(8801557344689, 'Reya',4);

INSERT INTO Customer VALUES(8801462236798, 'Washim',5);



1. Car

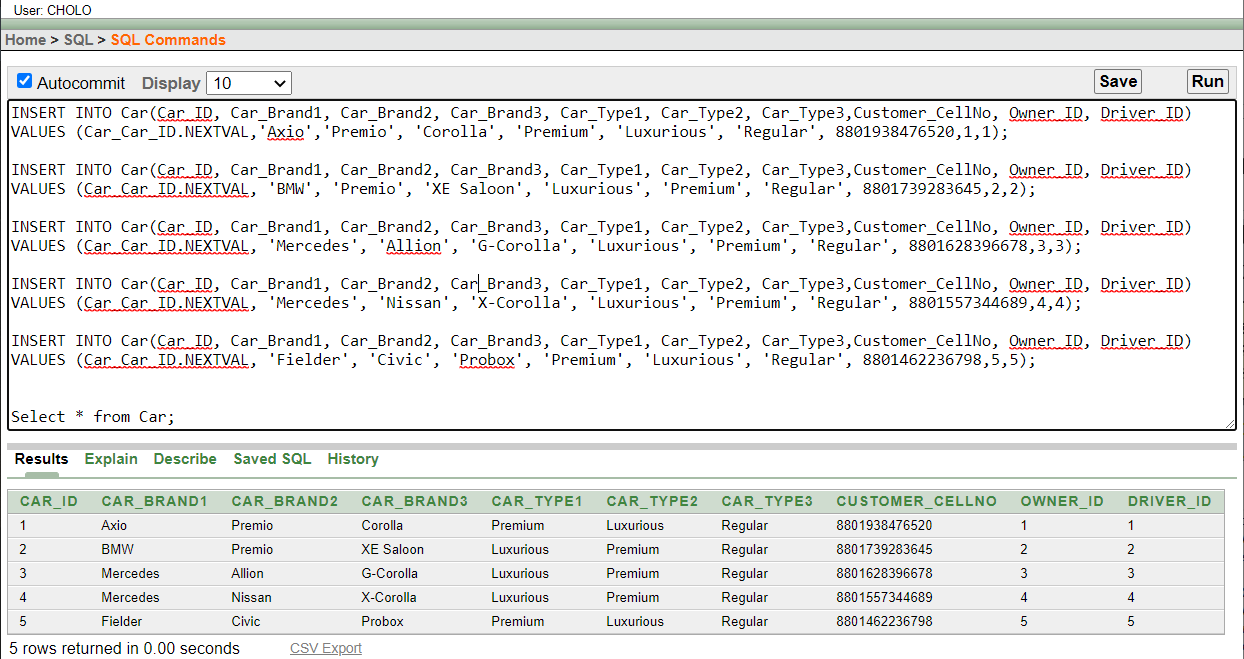
INSERT INTO Car(Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,Customer\_CellNo, Owner\_ID, Driver\_ID) VALUES (Car\_Car\_ID.NEXTVAL,'Axio','Premio', 'Corolla', 'Premium', 'Luxurious', 'Regular', 8801938476520,1,1);

INSERT INTO Car(Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,Customer\_CellNo, Owner\_ID, Driver\_ID) VALUES (Car\_Car\_ID.NEXTVAL, 'BMW', 'Premio', 'XE Saloon', 'Luxurious', 'Premium', 'Regular', 8801739283645,2,2);

INSERT INTO Car(Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,Customer\_CellNo, Owner\_ID, Driver\_ID) VALUES (Car\_Car\_ID.NEXTVAL, 'Mercedes', 'Allion', 'G-Corolla', 'Luxurious', 'Premium', 'Regular', 8801628396678,3,3);

INSERT INTO Car(Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,Customer\_CellNo, Owner\_ID, Driver\_ID) VALUES (Car\_Car\_ID.NEXTVAL, 'Mercedes', 'Nissan', 'X-Corolla', 'Luxurious', 'Premium', 'Regular', 8801557344689,4,4);

INSERT INTO Car(Car\_ID, Car\_Brand1, Car\_Brand2, Car\_Brand3, Car\_Type1, Car\_Type2, Car\_Type3,Customer\_CellNo, Owner\_ID, Driver\_ID) VALUES (Car\_Car\_ID.NEXTVAL, 'Fielder', 'Civic', 'Probox', 'Premium', 'Luxurious', 'Regular', 8801462236798,5,5);



1. Rent

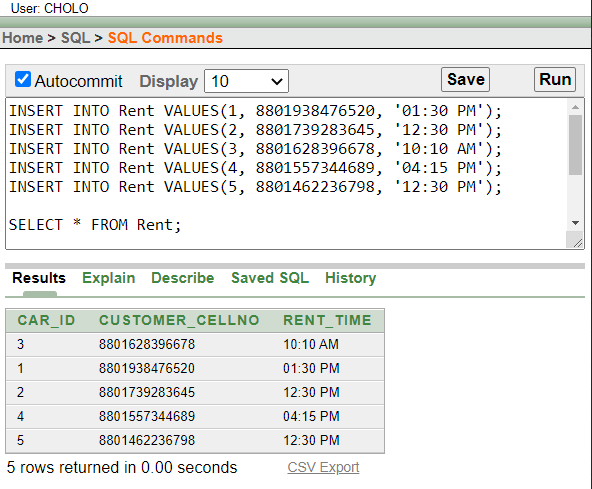
INSERT INTO Rent VALUES(1, 8801938476520, '01:30 PM');

INSERT INTO Rent VALUES(2, 8801739283645, '12:30 PM');

INSERT INTO Rent VALUES(3, 8801628396678, '10:10 AM');

INSERT INTO Rent VALUES(4, 8801557344689, '04:15 PM');

INSERT INTO Rent VALUES(5, 8801462236798, '12:30 PM');



1. Reserve

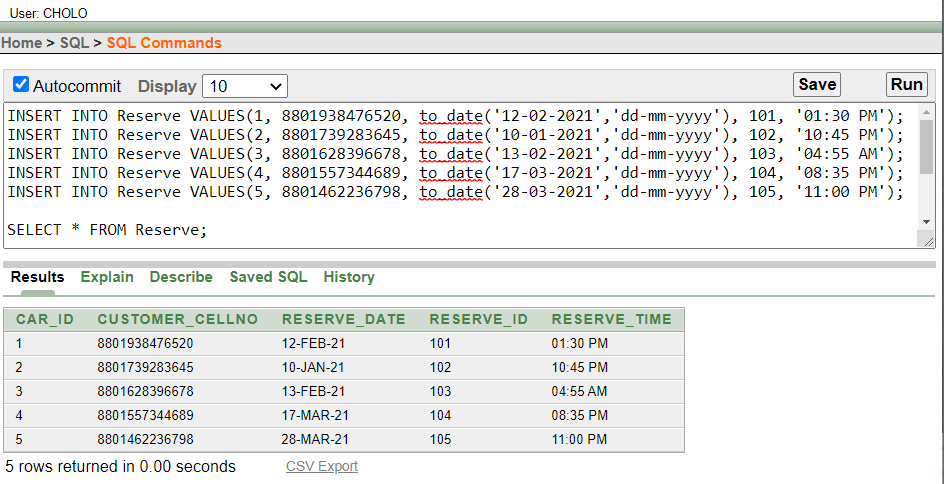
INSERT INTO Reserve VALUES(1, 8801938476520, to\_date('12-02-2021','dd-mm-yyyy'), 101, '01:30 PM');

INSERT INTO Reserve VALUES(2, 8801739283645, to\_date('10-01-2021','dd-mm-yyyy'), 102, '10:45 PM');

INSERT INTO Reserve VALUES(3, 8801628396678, to\_date('13-02-2021','dd-mm-yyyy'), 103, '04:55 AM');

INSERT INTO Reserve VALUES(4, 8801557344689, to\_date('17-03-2021','dd-mm-yyyy'), 104, '08:35 PM');

INSERT INTO Reserve VALUES(5, 8801462236798, to\_date('28-03-2021','dd-mm-yyyy'), 105, '11:00 PM');



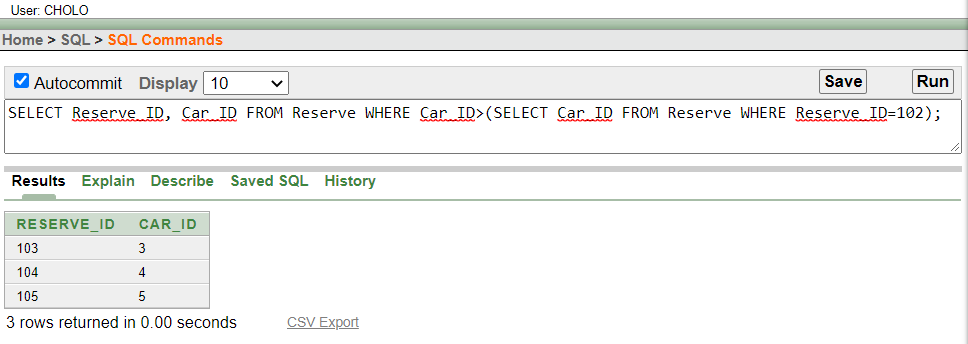
# **Query Writing**

Subquery:

1. Display those Car ID and Reserve ID where Reserve ID is greater than 102

**Ans**: SELECT Reserve\_ID, Car\_ID FROM Reserve

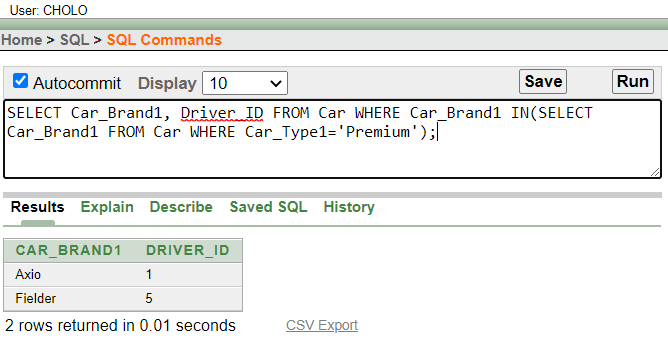
WHERE Car\_ID>(SELECT Car\_ID FROM Reserve WHERE Reserve\_ID=102);



1. Display the Car Brand1 and the Driver ID where Car Type1 is premium

**Ans**: SELECT Car\_Brand1, Driver\_ID FROM Car WHERE Car\_Brand1 IN (SELECT

Car\_Brand1 FROM Car WHERE Car\_Type1=‘Premium’);



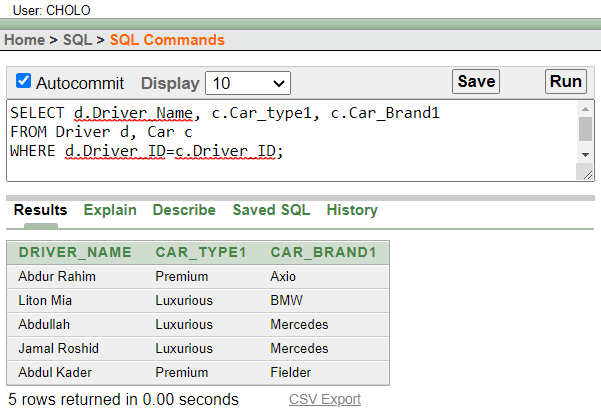
Joining:

1. Write a query to display Driver name, Car Type1 and Car Brand1 for all drivers.

**Ans**: SELECT d.Driver\_Name, c.Car\_Type1, c.Car\_Brand1

FROM Driver d, Car c

WHERE d.Driver\_ID=c.Driver\_ID;

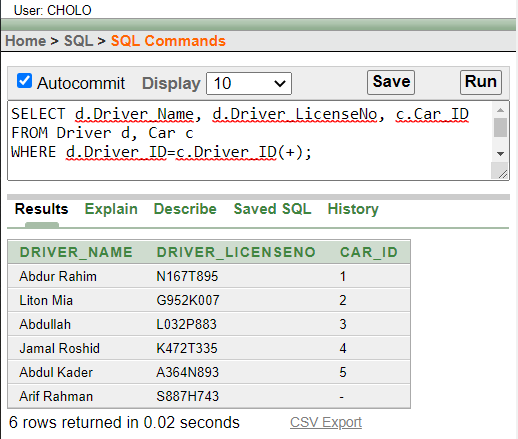


1. Display all the Driver name, Driver LicenseNo and their car ID. Make sure that the drivers that is not assigned with a car are also displayed.

**Ans**: SELECT d.Driver\_Name, d.Driver\_LicenseNo, c.Car\_ID

From Driver d, Car c

WHERE d,Driver\_ID=c.Driver\_ID(+);



View:

Grant Create View TO CHOLO; [System]

1. Create a view called CarView based on the Car\_ID, Car\_Brand1, Car\_Type1,

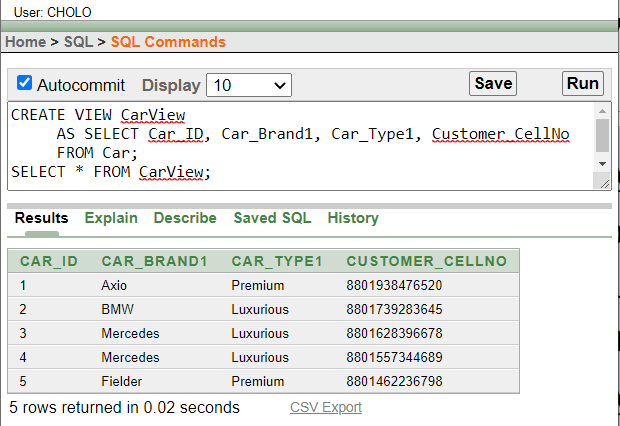
Customer\_CellNo from Car table. Display the contents of carView.

**Ans:** CREATE VIEW CarView

AS SELECT Car\_ID, Car\_Brand1, Car\_Type1, Customer\_CellNo

FROM Car;

SELECT \* FROM CarView;

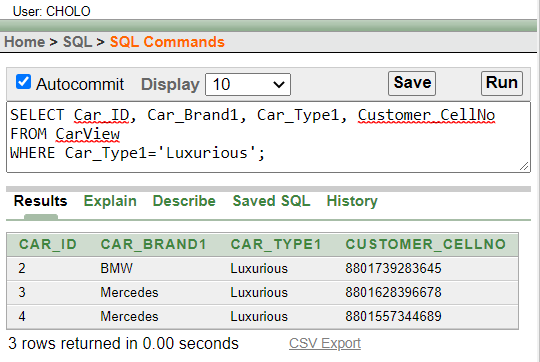


1. Write a query to display Car ID, Car Brand1, Car Type1 and Customer CellNo where Car Type1 is Luxurious from Car Table.

**Ans:** SELECT Car\_ID, Car\_Brand1, Car\_Type1, Customer\_CellNo

FROM CarView

WHERE Car\_Type1='Luxurious';



# **Relational Algebra**

1. Find the Car ID whose customer CellNo is “8801557344689” from the Car Table

∏Car\_ID (σ Customer\_CellNo = “8801557344689” (Car))

1. Find the driver name and contact whose License NO is “G952K007” from the Driver Table

∏Driver\_Name, Driver\_Contact (σ Driver\_LicenseNo = “G952K007” (Driver))

1. Find the Customer CellNo who reserved on 12 FEB 2021 from Reserve table

∏Customer\_CellNo (σ Reserve\_Date = “12-02-2021” (Reserve))

1. Find the Rent Time whose Car ID is 4 from Rent table

∏Rent\_Time (σ Car\_ID = 4 (Rent))

1. Find the Owner Name and Owner ID whose Contact No is 8801612367834 from Owner Table

∏Owner\_Name, Owner\_ID (σ Owner\_Contact = “8801612367834” (Owner))

# **Conclusion**

After the efforts by all our group members we created our database management project “Car Ride Hailing Management System”. Initially we faced some problems but then we were able to overcome that. Such as if we could add the fare of the renting of a car it would be better to operate. If we could Add the salary for the drivers it would be easier to sort the drivers according salaries and also experience.

Hopefully in future we will work to use our database system to work for the whole country not only in Dhaka city. We will be able to create real database system for organizations.