



**SECD2523
SECTION 10**

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**PROJECT TITLE:
HASTA CAR RENTAL
(PHASE 3)**

GROUP: MEOW

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1.0 Introduction

We are enrolled as undergraduate students at the University of Technology Malaysia, currently in our second year, first semester, pursuing a Bachelor's Degree in Computer Science with Honors, specializing in Graphic and Multimedia Software. The development of this project proposal aligns with the academic requirements of our SECD2523 Database course, specifically Section 10, under the guidance of our esteemed lecturer, Dr. Rozilawati Binti Dollah @ Md Zain. The focus of our project revolves around addressing a crucial challenge faced by an e-commerce entity, HASTA car service rental. As they do not have a digital system yet, we want to conceptualize and construct an integrated digital system and ensure details tailored to enhance efficiency and align seamlessly with the objectives and purposes of HASTA's operations.

2.0 Overview

The development of a car rental service e-commerce system for HASTA car rental brings forth several critical challenges. First and foremost, the efficient integration and management of diverse data sources. Insufficient data integration poses a significant risk, potentially leading to operational inefficiencies, delays, and a bad customer experience. Secondly, ensuring scalability is crucial to meet the increasing demand for the services. Scalability issues could restrict the ability to accommodate a growing customer base, reducing the ability to deliver a seamless and reliable rental experience. Moreover, creating a user-friendly interface is a pressing concern. A complex interface design can discourage potential customers and slow down the mission to provide a hassle-free rental process. Lastly, addressing security and privacy concerns is of utmost importance. As data breaches and cybercrimes rise as significant threats, safeguarding customer data and complying with data protection regulations are essential to maintain trust and protect sensitive information. These four challenges demand our full attention and innovative solutions as we strive to enhance the car rental experience and ensure the success and satisfaction of the users.

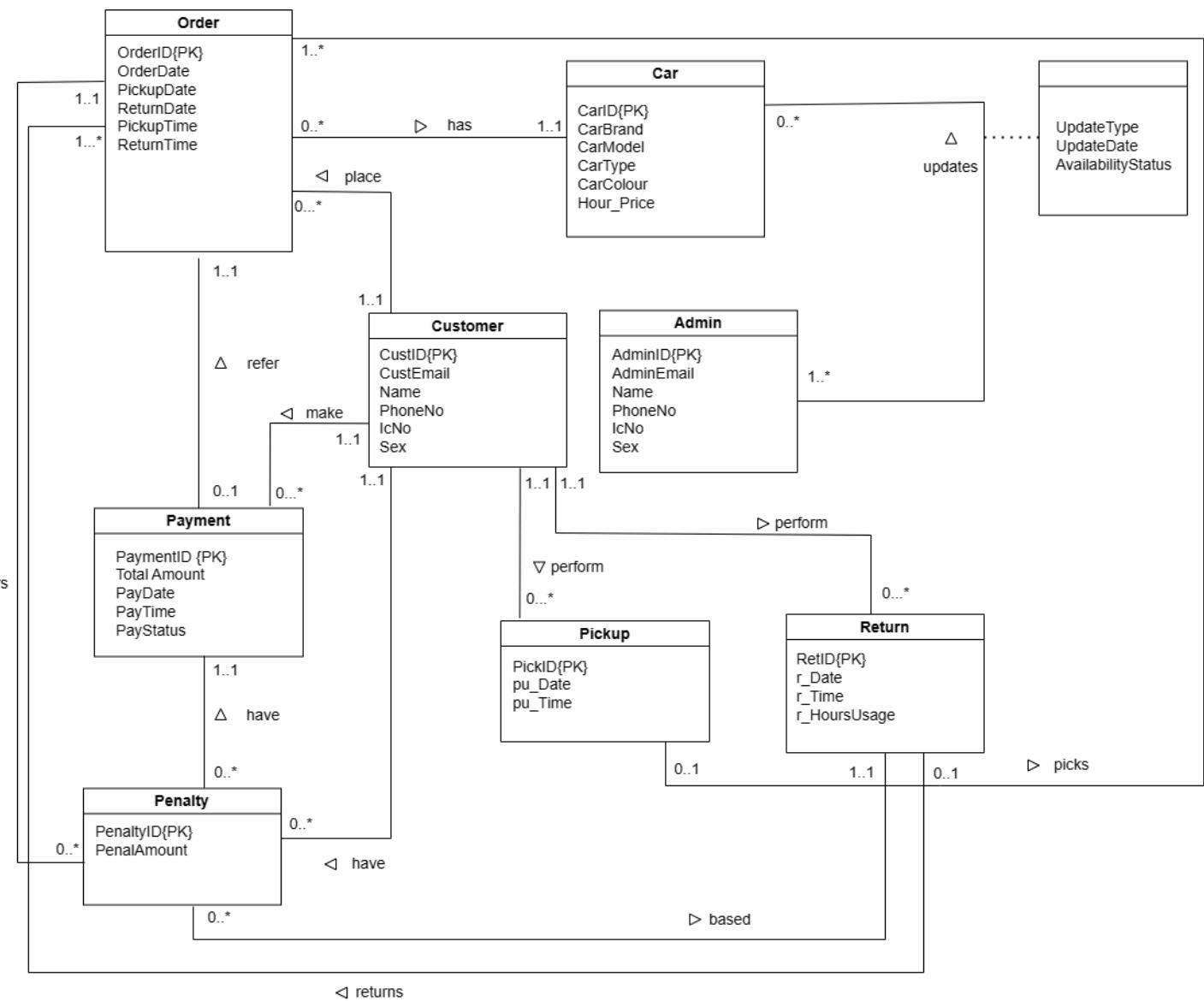
3.0 Database conceptual design (Updated)

3.1 Updated business rule

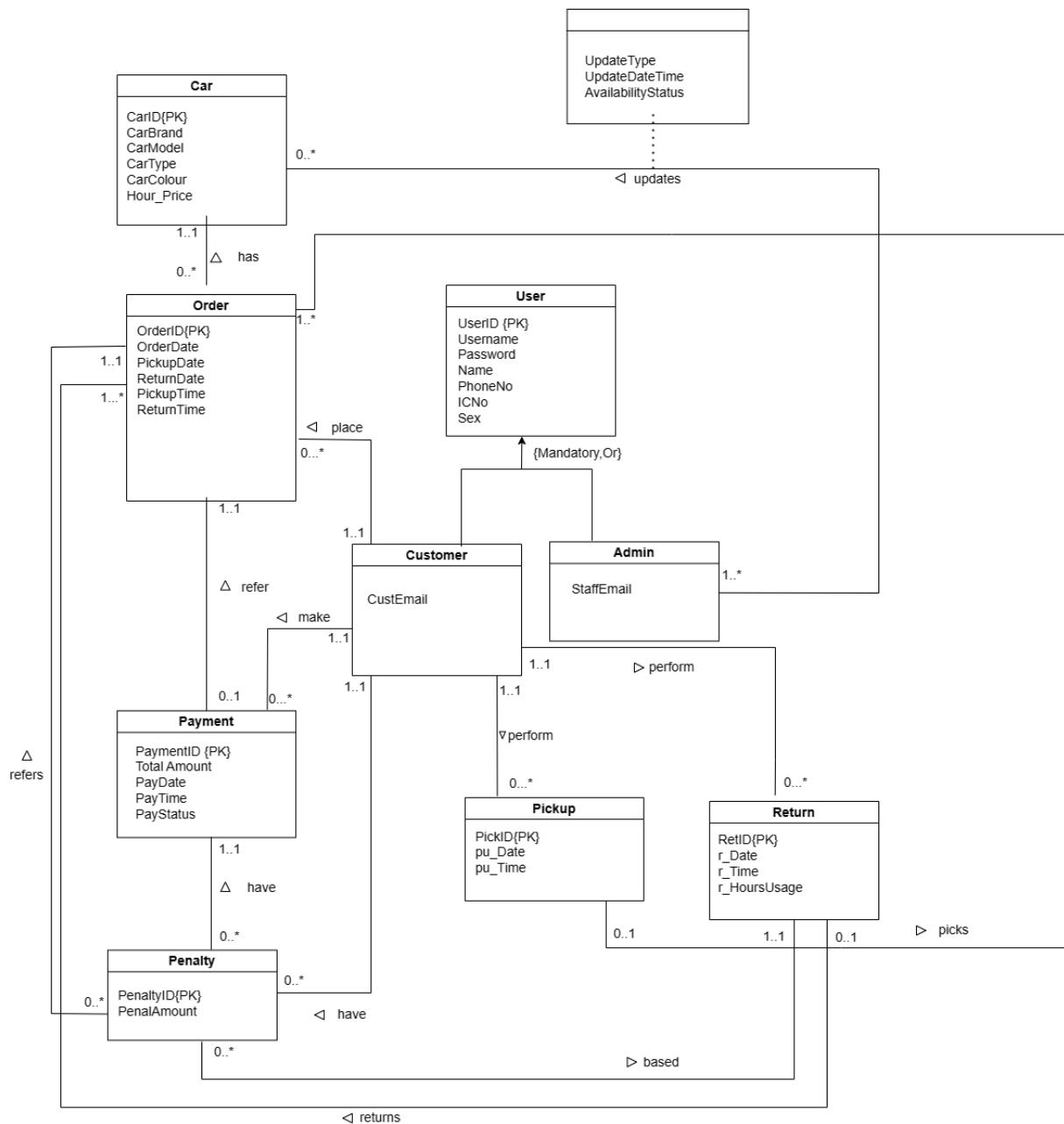
- Every customer and admin must register with a unique email address and each customer and admin can only register once using the same email address.
- Every registered user has to log in using a specific username and the password to access the system.
- The user of the system may be either an admin or a customer.
- A customer can define various criteria of the car he/she wants to rent.
- Each customer can place multiple rental/orders.
- Each customer can make payments for their orders/rental.
- Each payment can be referred to by an order.
- A customer can perform many pickup processes based on different orders.
- A customer can perform many returning processes based on the number of pickup processes.
- A customer may have many penalties but a specific penalty is issued to only one customer.
- Each payment can have multiple penalties but a specific penalty can be paid only once.
- An admin can perform a change to the inventory car list so car stock is always in manage.
- Each customer can receive many notifications but the notifications are specified to different categories such as Penalty status, Payment status, Pickup status and Return status notification.
- An admin can receive many notifications about car stocks.

3.2 Conceptual ERD

3.2.1 ERD

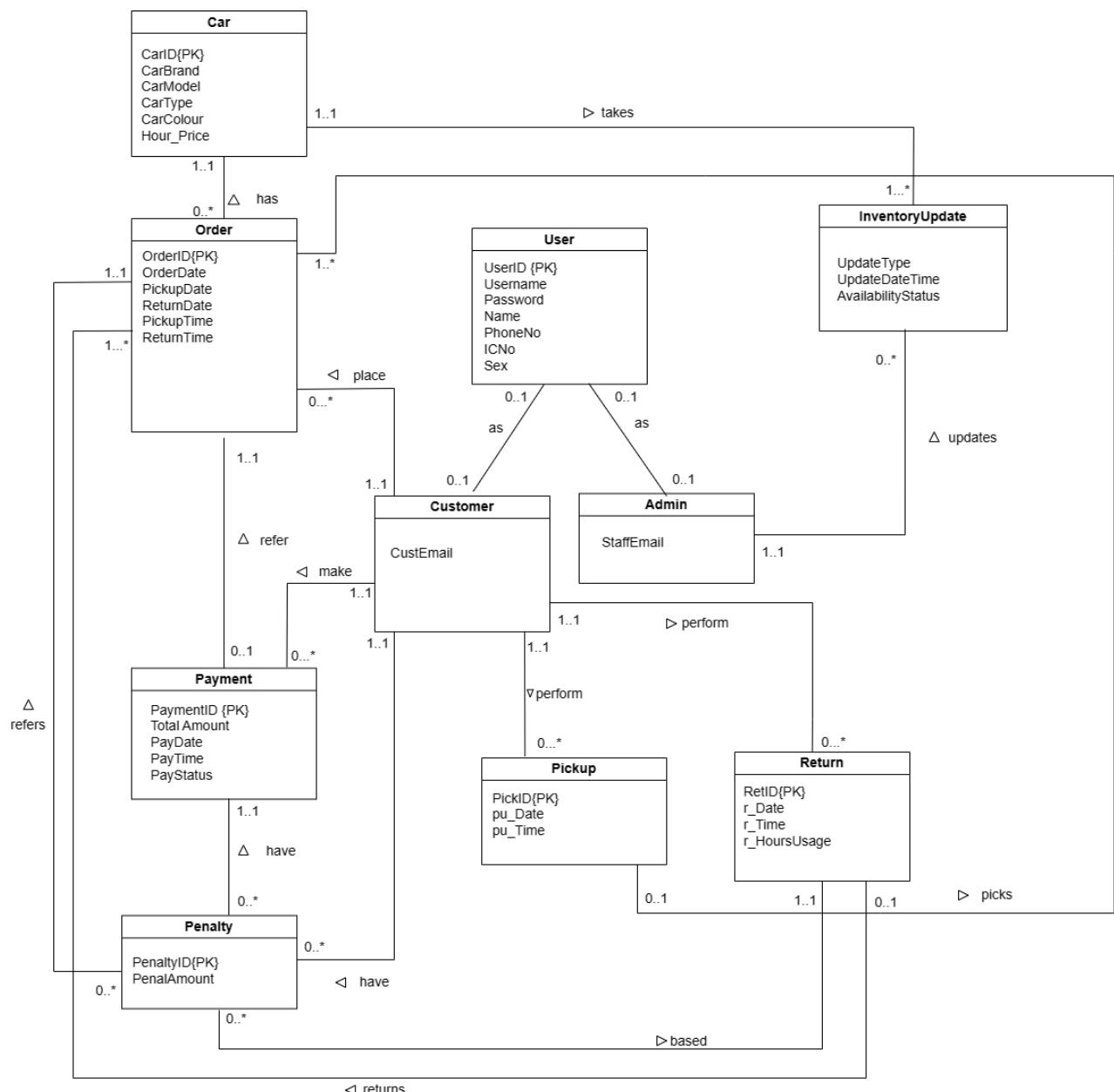


3.2.2 EERD



4.0 DB Logical Design

4.1 Logical ERD



4.1.1 Relations for logical ERD

- PENALTY(PenaltyID,ReturnDate,PenaltyAmount,UserID,PaymentID,OrderID,RetID)
 - PK:PenaltyID
 - FK : UserID references Customer (UserID), OrderID references Order(OrderID), PaymentID references Payment(PaymentID), RetID references Return(RetID)
- ORDERS(OrderID, OrderDate, PickupDate , ReturnDate, PickupTime,ReturnTime,UserID,CarID)
 - PK: OrderID
 - FK : UsertID references Customer (UsertID) , CarID references Car(CarID)
- PAYMENT(PaymentID, TotalAmount, PayDate, PayTime, PayStatus,OrderID,UsertID)
 - PK : PaymentID
 - FK : OrderID references Order(OrderID),UserID references Customer (UserID)
- PICKUP(PickID,pu_Date,pu_Time,OrderID,UserID)
 - FK : OrderID references Order(OrderID) ,UserID references Customer (UserID)
- RETURN(RetID,r_Date,r_Time,r_HoursUsage, OrderID,UserID)
 - FK : OrderID references Order(OrderID) , UserID references Customer (UserID)
- CUSTOMER(UserID,CustEmail,Username,Password,Name,PhoneNo,ICNo,Sex)
 - PK : UserID
- ADMIN(UserID,StaffEmail,Username,Password,Name,PhoneNo,ICNo,Sex)
 - PK : UserID

- CAR(CarID,CarBrand,CarModel,CarType,CarColour,Hour_price)
PK : CarID
- INVENTORYUPDATE(UserID,CarID,UpdateType,UpdateDateTime,AvailabilityStatus)
PK : UserID
FK : UserID references Admin (UserID)

4.2 Normalization

1. PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus,OrderID,UserID)
FD1 : PaymentID → TotalAmount, PayDate, PayTime, PayStatus,OrderID,userID
1NF & BCNF:
PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus,OrderID,UserID)
2. PENALTY (PenaltyID,PenaltyAmount,UserID,PaymentID,OrderID,RetID)
FD1 : PenaltyID → PenaltyAmount, UserID,PaymentID,OrderID,RetID
1NF & BCNF :
PENALTY (PenaltyID,PenaltyAmount,UserID,PaymentID,OrderID,RetID)
3. PICKUP (PickID,pu_Date,pu_Time,OrderID,UserID)
FD1 : PickID → pu_Date,pu_Time,OrderID,UserID
1NF & BCNF:
PICKUP (PickID,pu_Date,pu_Time,OrderID,UserID)
4. RETURN (RetID,r_Date,r_Time,r_HoursUsage, OrderID,UserID)
FD1 : RetID → r_Date,r_Time,r_HoursUsage, OrderID,UserID
1NF & BCNF:
RETURN (RetID,r_Date,r_Time,r_HoursUsage, OrderID,UserID)

5. CUSTOMER(UserID,CustEmail,,Username,Password,Name,PhoneNo,ICNo,Sex)

FD1 : UserID → CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex

1NF & BCNF:

CUSTOMER(UserID,CustEmail,Username,Password,Name,PhoneNo,ICNo,Sex)

6. ADMIN(UserID,StaffEmail,Username,Password,Name,PhoneNo,ICNo,Sex)

FD1 : UserID → UserID, Username, Password, Name, PhoneNo, ICNo, Sex

1NF & BCNF :

ADMIN(UserID,StaffEmail,Username,Password,Name,PhoneNo,ICNo,Sex)

7. INVENTORYUPDATE(UserID,CarID,UpdateType,UpdateDateTime,AvailabilityStatus

)

FD1 : UserID, CarID, UpdateDateTime → UpdateType, AvailabilityStatus

1NF & BCNF :

INVENTORYUPDATE(UserID,CarID,UpdateType,UpdateDateTime,AvailabilityStatus

)

8. ORDERS(OrderID,OrderDate,PickupDate,ReturnDate,PickupTime,ReturnTime,UserI

D,CarID)

FD1 : OrderID → OrderDate, PickupDate, ReturnDate,

PickupTime, ReturnTime, UserID, CarID

1NF & BCNF :

ORDERS(OrderID,OrderDate,PickupDate,ReturnDate,PickupTime,ReturnTime,UserI

D,CarID)

9. CAR(CarID,CarBrand,CarModel,CarType,CarColour,Hour_Price)

1NF & BCNF :

CAR(CarID, CarBrand,CarModel,CarType,CarColour,HourPrice)

4.3 Updated Data Dictionary (based on normalization)

4.2.1 Description of Entity

Entity Name	Description	Occurrences
Customer	Buyers who buy rent the cars	<ul style="list-style-type: none">-Each customer can place many order-Each customer can make many payment-Each customer have zero or many penalty-Each customer can perform zero or many pickups.-Each customer can perform zero or many returns.
Admin	Staff that manage the system.	<ul style="list-style-type: none">-An admin can update zero or many cars
Order	Order details for specific rental.	<ul style="list-style-type: none">-An order can have only one car involved.-An order referred to by only one payment.-An order can be referred to by penalties but not necessarily.-An order of a car can be returned by zero or one return process.-An order of a car can be picked by zero or one pickup process.-An order can be linked to only one specific customer.
Payment	Payment amount for specific rental	<ul style="list-style-type: none">-A payment refers to one specific order.-A payment is made by one specific customer.-A payment can include zero to many penalties.
Penalty	Penalty amount for specific rental.	<ul style="list-style-type: none">-A penalty refers to specific order.-A specific penalty can be linked to a specific customer.-A penalty is based on the actual return time of the rent car.-A penalty can have only one payment.

Pickup	Pickup process for and order rental	-A pickup can be performed by only one customer. -A pickup process can pick up one to many orders of rent car.
Return	Return process for and order rental	-A return can be performed by only one customer. -A return process can return many orders. -A return is being referenced to zero or many penalties.
Inventory Update	Inventory process for car list.	-An inventory update can be taken by only one car -An inventory update can be updated by one admin only.
Car	Unique identifier for car	-A car can take many updates. -A car can be in many orders after each return.

4.2.2 Description of Relationship

Entity Name	Multiplicity	Relationship	Entity Name	Multiplicity
Penalty	0..*	refers	Order	1..1
	0..*	based	Return	1..1
	1..*	have	Payment	1..1
Payment	0..1	refer	Order	1..1
Order	0..*	has	Car	1..1
Car	1..1	takes	InventoryUpdate	1..*
Pickup	0..1	picks	Order	1..*
Return	0..1	returns	Order	1..*
Customer	1..1	place	Order	0..*
	1..1	make	Payment	0..*
	1..1	have	Penalty	0..*
	1..1	perform	Pickup	0..*
	1..1	perform	Return	0..*
Admin	1..1	update	InventoryUpdate	0..*

4.2.3 Description of Attributes

Entity Name	Attributes	Description	Data Type & Length	Nulls	Multivalued
Customer	UserID	Unique identifier for Efficient user system identification.	20 variable characters	NO	NO
	CustEmail	Customer's email address for communication and identification purposes.	50 variable characters	NO	NO
	Username	Customer's login identifier.	50 variable characters	NO	NO
	Password	Customer's access key.	50 variable characters	NO	NO
	Name	Customer's full name.	255 variable characters	NO	NO
	PhoneNo	Customer's contact number.	10 variable characters	NO	NO
	ICNo	Customer's identification number.	12 variable characters	NO	NO
	Sex	Customer's gender.	1 variable character (M or F)	YES	NO
Admin	UserID	Unique identifier for Efficient user system identification.	20 variable characters	NO	NO
	StaffEmail	Admin's email address for communication and identification purposes.	50 variable characters		
	Username	Admin's login identifier.	50 variable characters	NO	NO
	Password	Admin's access key.	50 variable characters	NO	NO

	Name	Admin's full name.	255 variable characters	NO	NO
	PhoneNo	Admin's contact number.	10 variable characters	NO	NO
	ICNo	Admin's identification number.	12 variable characters	NO	NO
	Sex	Admin's gender.	1 variable character (M or F)	YES	NO
Orders	OrderID	Unique identifier for the order.	10 variable characters	NO	NO
	UserID	Unique identifier for efficient customer system identification	20 variable characters	NO	NO
	CarID	Unique identifier for car	20 variable characters	NO	NO
	OrderDate	Date order made	Date	YES	NO
	PickupDate	Date for car pickup.	Date	YES	NO
	ReturnDate	Date for car return.	Date	YES	NO
	PickupTime	Time for car pickup.	Timestamp	YES	NO
	ReturnTime	Time for car return.	Timestamp	YES	NO
Payment	PaymentID	Unique identifier for the payment.	20 variable characters	NO	NO
	OrderID	Unique identifier for the order.	40 variable characters	NO	NO
	UserID	Unique identifier for efficient customer system identification	20 variable characters	NO	NO
	TotalAmount	Amount paid for the order.	NUMBER(5,2)	YES	NO
	PayDate	Date of payment.	30 variable characters	YES	NO
	PayTime	Time paid.	Timestamp	YES	NO

	PayStatus	Success status of the payment.	10 variable characters	YES	NO
Penalty	PenaltyID	Unique identifier for penalties.	10 variable characters	NO	NO
	PenaltyAmount	Price for penalty	NUMBER(5,2)	YES	NO
	UserID	Customer associated with the pickup.	10 variable characters	NO	NO
	PaymentID	Unique identifier for the payment.	20 variable characters	NO	NO
	OrderID	Unique identifier for the order.	10 variable characters	NO	NO
	RetID	Unique identifier for Return.	10 variable characters	NO	NO
Pickup	PickID	Unique identifier for pickup.	10 variable characters	NO	NO
	OrderID	Unique identifier for orders.	10 variable characters	NO	NO
	UserID	Customer associated with the pickup.	10 variable characters	NO	NO
	pu_Date	Date to pick up rented car.	Date	YES	NO
	pu_Time	Time to pick up rented car	Timestamp	YES	NO
Return	RetID	Unique identifier for Return.	10 variable characters	NO	NO
	OrderID	Unique identifier for orders.	10 variable characters	NO	NO
	UserID	Customer associated with the return of rented car.	10 variable characters	NO	NO
	r_Date	Date to return rented car.	Date	YES	NO
	r_Time	Time to return rented car.	Timestamp	YES	NO
	r_HoursUsage	Hours of car used.	4 variable numbers	YES	NO

Inventory Update	UserID	Unique identifier for admin	10 variable characters	NO	NO
	CarID	Unique identifier for car	10 variable characters	NO	NO
	UpdateType	Type of inventory update.	10 variable characters	NO	NO
	UpdateDateTime	Date of the update.	TimeStamp	YES	NO
	AvailabilityStatus	Status indicating availability of inventory.	20 variable characters	NO	NO
Car	CarID	Unique identifier for car	10 variable characters	NO	NO
	CarModel	Model of car	30 variable characters	NO	NO
	CarType	Type/class of car	30 variable characters	NO	NO
	CarBrand	Company brand of car	30 variable characters	NO	NO
	CarColour	Color of car body	20 variable characters	NO	NO
	Hour_price	Rent price per hour of car	NUMBER(5,2)	NO	NO

5.0 Relational DB Schemas (after normalization)

PENALTY (PenaltyID,PenaltyAmount,UserID,PaymentID,OrderID,RetID)

ORDERS(OrderID,OrderDate,PickupDate,ReturnDate,PickupTime,ReturnTime,UserID,CarID
)

PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus,OrderID,UserID)

PICKUP (PickID,pu_Date,pu_Time,OrderID,UserID)

RETURN (RetID,r_Date,r_Time,r_HoursUsage, OrderID,UserID)

INVENTORYUPDATE(UserID,CarID,UpdateType,UpdateDateTime,AvailabilityStatus)

CUSTOMER(UserID,CustEmail,Username,Password,Name,PhoneNo,ICNo,Sex)

ADMIN(UserID,StaffEmail,Username,Password,Name,PhoneNo,ICNo,Sex)

CAR(CarID, CarBrand,CarModel,CarType,CarColour,HourPrice)

PENALTY

PenaltyID	ReturnDate	UserID	PaymentID	OrderID	RetID
-----------	------------	--------	-----------	---------	-------

ORDERS

OrderID	OrderDate	PickupDate	PickupTime	ReturnDate	ReturnTime	UserID	CarID
---------	-----------	------------	------------	------------	------------	--------	-------

PAYMENT

PaymentID	TotalAmount	PayDate	PayTime	PayStatus	OrderID	UserID
-----------	-------------	---------	---------	-----------	---------	--------

PICKUP

PickID	pu_Date	pu_Time	OrderID	UserID
--------	---------	---------	---------	--------

RETURN

RetID	r_Date	r_Time	r_HoursUsage	OrderID	UserID
-------	--------	--------	--------------	---------	--------

INVENTORYUPDATE

UpdateID	UpdateType	UpdateDate	AvailabilityStatus	UserID
----------	------------	------------	--------------------	--------

CUSTOMER

UserID	CustEmail	Username	Password	Name	PhoneNo	ICNo	Sex
--------	-----------	----------	----------	------	---------	------	-----

ADMIN

UserID	CustEmail	Username	Password	Name	PhoneNo	ICNo	Sex
--------	-----------	----------	----------	------	---------	------	-----

CAR

CarID	CarBrand	CarModel	CarType	CarType	CarColour	Hour_price
-------	----------	----------	---------	---------	-----------	------------

6.0 SQL Statements (DDL & DML)

6.1 DDL

-- CUSTOMER

```
CREATE TABLE CUSTOMER (
    UserID VARCHAR2(10) PRIMARY KEY,
    CustEmail VARCHAR2(50) NOT NULL,
    Username VARCHAR2(50) NOT NULL,
    Password VARCHAR2(50) NOT NULL,
    Name VARCHAR2(255) NOT NULL,
    PhoneNo VARCHAR2(10) NOT NULL,
    ICNo VARCHAR2(12) NOT NULL,
    Sex VARCHAR2(1)
);
```

-- ADMIN

```
CREATE TABLE ADMIN (
    UserID VARCHAR2(10) PRIMARY KEY,
    StaffEmail VARCHAR2(50) NOT NULL,
    Username VARCHAR2(50) NOT NULL,
    Password VARCHAR2(50) NOT NULL,
    Name VARCHAR2(255) NOT NULL,
    PhoneNo VARCHAR2(10) NOT NULL,
    ICNo VARCHAR2(12) NOT NULL,
```

```
Sex VARCHAR2(1)  
);  
  
-- CAR  
CREATE TABLE CAR (  
    CarID VARCHAR2(10) PRIMARY KEY,  
    CarBrand VARCHAR2(30) NOT NULL,  
    CarModel VARCHAR2(30) NOT NULL,  
    CarType VARCHAR2(30) NOT NULL,  
    CarColour VARCHAR2(20) NOT NULL,  
    Hour_Price NUMBER(5,2) NOT NULL  
);
```

```
-- ORDER  
CREATE TABLE ORDERS (  
    OrderID VARCHAR2(10) PRIMARY KEY,  
    OrderDate DATE,  
    PickupDate DATE,  
    ReturnDate DATE,  
    PickupTime TIMESTAMP,  
    ReturnTime TIMESTAMP,  
    UserID VARCHAR2(10),  
    CarID VARCHAR2(10)  
);
```

```
-- PAYMENT  
CREATE TABLE PAYMENT (  
    PaymentID VARCHAR2(10) PRIMARY KEY,  
    TotalAmount NUMBER(5,2),  
    PayDate DATE,  
    PayTime TIMESTAMP,  
    PayStatus VARCHAR2(10),  
    OrderID VARCHAR2(10),
```

```
UserID VARCHAR2(10)
);
```

-- PICKUP

```
CREATE TABLE PICKUP (
    PickID VARCHAR2(10) PRIMARY KEY,
    pu_Date DATE,
    pu_Time TIMESTAMP,
    OrderID VARCHAR2(10),
    UserID VARCHAR2(10)
);
```

-- RETURN

```
CREATE TABLE RETURN (
    RetID VARCHAR2(10) PRIMARY KEY,
    r_Date DATE,
    r_Time TIMESTAMP,
    r_HoursUsage NUMBER(4,0),
    OrderID VARCHAR2(10),
    UserID VARCHAR2(10)
);
```

-- PENALTY

```
CREATE TABLE PENALTY (
    PenaltyID VARCHAR2(10) PRIMARY KEY,
    PenaltyAmount NUMBER(5, 2),
    UserID VARCHAR2(10),
    PaymentID VARCHAR2(10),
    OrderID VARCHAR2(10),
    RetID VARCHAR2(10)
);
```

-- INVENTORYUPDATE

```
CREATE TABLE INVENTORYUPDATE (
    UpdateType VARCHAR2(30) NOT NULL,
    UpdateDateTime TIMESTAMP,
    AvailabilityStatus VARCHAR2(20) NOT NULL,
    UserID VARCHAR2(10),
    CarID VARCHAR2(10)
);
```

6.2 DML

Adding Foreign Key Constraints using a single ALTER TABLE statement

```
-- ORDERS
```

```
ALTER TABLE ORDERS
ADD CONSTRAINT FK_Order_Customer FOREIGN KEY (UserID) REFERENCES
CUSTOMER(UserID);
```

```
ALTER TABLE ORDERS
```

```
ADD CONSTRAINT FK_Order_Car FOREIGN KEY (CarID) REFERENCES CAR(CarID);
```

```
-- PAYMENT
```

```
ALTER TABLE PAYMENT
ADD CONSTRAINT FK_Payment_Order FOREIGN KEY (OrderID) REFERENCES
"ORDERS"(OrderID);
```

```
ALTER TABLE PAYMENT
```

```
ADD CONSTRAINT FK_Payment_Customer FOREIGN KEY (UserID) REFERENCES
CUSTOMER(UserID);
```

```
-- PICKUP
```

```
ALTER TABLE PICKUP
ADD CONSTRAINT FK_Pickup_Order FOREIGN KEY (OrderID) REFERENCES
"ORDERS"(OrderID);
```

```
ALTER TABLE PICKUP
```

```
ADD CONSTRAINT FK_Pickup_Customer FOREIGN KEY (UserID) REFERENCES  
CUSTOMER(UserID);
```

-- RETURN

```
ALTER TABLE RETURN  
ADD CONSTRAINT FK_Return_Order FOREIGN KEY (OrderID) REFERENCES  
"ORDERS"(OrderID);
```

```
ALTER TABLE RETURN  
ADD CONSTRAINT FK_Return_Customer FOREIGN KEY (UserID) REFERENCES  
CUSTOMER(UserID);
```

-- PENALTY

```
ALTER TABLE PENALTY  
ADD CONSTRAINT FK_Penalty_Customer FOREIGN KEY (UserID) REFERENCES  
CUSTOMER(UserID);
```

```
ALTER TABLE PENALTY  
ADD CONSTRAINT FK_Penalty_Payment FOREIGN KEY (PaymentID) REFERENCES  
PAYMENT(PaymentID);
```

```
ALTER TABLE PENALTY  
ADD CONSTRAINT FK_Penalty_Order FOREIGN KEY (OrderID) REFERENCES  
"ORDERS"(OrderID);
```

```
ALTER TABLE PENALTY  
ADD CONSTRAINT FK_Penalty_Return FOREIGN KEY (RetID) REFERENCES RETURN(RetID);
```

-- INVENTORYUPDATE

```
ALTER TABLE INVENTORYUPDATE  
ADD CONSTRAINT FK_InventoryUpdate_Admin FOREIGN KEY (UserID) REFERENCES  
ADMIN(UserID);
```

```
ALTER TABLE INVENTORYUPDATE
ADD CONSTRAINT FK_InventoryUpdate_Car FOREIGN KEY (CarID) REFERENCES
CAR(CarID);
```

-- Insert data into CUSTOMER table

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST001', 'cust1@example.com', 'customer1', 'password1', 'John Doe', '123456789',
'A1234567', 'M');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST002', 'cust2@example.com', 'customer2', 'password2', 'Jane Doe', '987654321',
'B9876543', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST003', 'cust3@example.com', 'customer3', 'password3', 'Alice Smith', '555666777',
'C5556677', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST004', 'cust4@example.com', 'customer4', 'password4', 'Bob Johnson', '111222333',
'D1112233', 'M');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST005', 'cust5@example.com', 'customer5', 'password5', 'Eva White', '444555666',
'E4445566', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST006', 'cust6@example.com', 'customer6', 'password6', 'Chris Brown', '999000111',
'F9990011', 'M');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST007', 'cust7@example.com', 'customer7', 'password7', 'Diana Miller', '222333444',
'G2223344', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
```

```
VALUES ('CUST008', 'cust8@example.com', 'customer8', 'password8', 'Edward Davis', '666777888',  
'H6667788', 'M');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST009', 'cust9@example.com', 'customer9', 'password9', 'Fiona Taylor', '333444555',  
'I3334455', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST010', 'cust10@example.com', 'customer10', 'password10', 'George Wilson',  
'888999000', 'J8889900', 'M');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST011', 'cust11@example.com', 'customer11', 'password11', 'Helen Turner', '555666777',  
'K5556677', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST012', 'cust12@example.com', 'customer12', 'password12', 'Ian Parker', '111222333',  
'L1112233', 'M');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST013', 'cust13@example.com', 'customer13', 'password13', 'Jessica Reed', '777888999',  
'M7778899', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST014', 'cust14@example.com', 'customer14', 'password14', 'Keith Fisher', '444555666',  
'N4445566', 'M');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST015', 'cust15@example.com', 'customer15', 'password15', 'Linda Turner', '999000111',  
'O9990011', 'F');
```

```
INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES ('CUST016', 'cust16@example.com', 'customer16', 'password16', 'Michael Evans',  
'333444555', 'P3334455', 'M');
```

INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST017', 'cust17@example.com', 'customer17', 'password17', 'Nina Carter', '666777888',
'Q6667788', 'F');

INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST018', 'cust18@example.com', 'customer18', 'password18', 'Oscar Smith', '222333444',
'R2223344', 'M');

INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST019', 'cust19@example.com', 'customer19', 'password19', 'Paula Davis', '555666777',
'S5556677', 'F');

INSERT INTO CUSTOMER (UserID, CustEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('CUST020', 'cust20@example.com', 'customer20', 'password20', 'Quincy Brown',
'888999000', 'T8889900', 'M');

SELECT * FROM CUSTOMER;

USERID	CUSTEMAIL	USERNAME	PASSWORD	NAME	PHONE NO	ICNO	SEX
CUST004	cust4@example.com	customer4	password4	Bob Johnson	111222333	D1112233	M
CUST014	cust14@example.com	customer14	password14	Keith Fisher	444555666	N4445566	M
CUST009	cust9@example.com	customer9	password9	Fiona Taylor	333444555	B334455	F
CUST015	cust15@example.com	customer15	password15	Jessica Reed	777888999	M7778899	F
CUST001	cust1@example.com	customer1	password1	John Doe	123456789	A1234567	M
CUST002	cust2@example.com	customer2	password2	Jane Doe	987654321	B9876543	F
CUST003	cust3@example.com	customer3	password3	Alice Smith	555666777	C5556677	F
CUST011	cust11@example.com	customer11	password11	Helen Turner	555666777	K5556677	F
CUST010	cust10@example.com	customer10	password10	George Wilson	888999000	J8889900	M
CUST012	cust12@example.com	customer12	password12	Ian Parker	111222333	L1112233	M
CUST016	cust16@example.com	customer16	password16	Michael Evans	333444555	P3334455	M
CUST020	cust20@example.com	customer20	password20	Quincy Brown	888999000	T8889900	M
CUST005	cust5@example.com	customer5	password5	Eva White	444555666	E4445566	F
CUST006	cust6@example.com	customer6	password6	Chris Brown	999000111	F9990011	M
CUST007	cust7@example.com	customer7	password7	Diana Miller	222333444	G2223344	F
CUST008	cust8@example.com	customer8	password8	Edward Davis	666777888	H6667788	M
<hr/>							
CUST015	cust15@example.com	customer15	password15	Linda Turner	999000111	O9990011	F
CUST017	cust17@example.com	customer17	password17	Nina Carter	666777888	Q66677888	F
CUST019	cust19@example.com	customer19	password19	Paula Davis	555666777	S55566777	F
CUST018	cust18@example.com	customer18	password18	Oscar Smith	222333444	R2223344	M

-- Insert data into ADMIN table

INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('ADMIN001', 'admin1@example.com', 'admin1', 'adminpass1', 'Admin One', '111222333',
'C1112233', 'M');

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES ('ADMIN002', 'admin2@example.com', 'admin2', 'adminpass2', 'Admin Two', '444555666',
'D4445566', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN003', 'admin3@example.com', 'admin3', 'adminpass3', 'Admin Three', '777888999',
'E7778899', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN004', 'admin4@example.com', 'admin4', 'adminpass4', 'Admin Four', '999000111',
'F9990011', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN005', 'admin5@example.com', 'admin5', 'adminpass5', 'Admin Five', '123456789',
'G1234567', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN006', 'admin6@example.com', 'admin6', 'adminpass6', 'Admin Six', '666777888',
'H6667788', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN007', 'admin7@example.com', 'admin7', 'adminpass7', 'Admin Seven', '222333444',
'I2223344', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN008', 'admin8@example.com', 'admin8', 'adminpass8', 'Admin Eight', '555666777',
'J5556677', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN009', 'admin9@example.com', 'admin9', 'adminpass9', 'Admin Nine', '888999000',
'K8889900', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
```

```
VALUES('ADMIN010', 'admin10@example.com', 'admin10', 'adminpass10', 'Admin Ten', '333444555',  
'L3334455', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN011', 'admin11@example.com', 'admin11', 'adminpass11', 'Admin Eleven',  
'666777888', 'M6667788', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN012', 'admin12@example.com', 'admin12', 'adminpass12', 'Admin Twelve',  
'111122223', 'N1112223', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN013', 'admin13@example.com', 'admin13', 'adminpass13', 'Admin Thirteen',  
'444455556', 'O4445556', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN014', 'admin14@example.com', 'admin14', 'adminpass14', 'Admin Fourteen',  
'777788899', 'P7778899', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN015', 'admin15@example.com', 'admin15', 'adminpass15', 'Admin Fifteen',  
'999000111', 'Q9990011', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN016', 'admin16@example.com', 'admin16', 'adminpass16', 'Admin Sixteen',  
'123456789', 'R1234567', 'F');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN017', 'admin17@example.com', 'admin17', 'adminpass17', 'Admin Seventeen',  
'666777888', 'S6667788', 'M');
```

```
INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)  
VALUES('ADMIN018', 'admin18@example.com', 'admin18', 'adminpass18', 'Admin Eighteen',  
'222233344', 'T2223344', 'F');
```

```

INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN019', 'admin19@example.com', 'admin19', 'adminpass19', 'Admin Nineteen',
'555566677', 'U5556677', 'M');

```

```

INSERT INTO ADMIN (UserID, StaffEmail, Username, Password, Name, PhoneNo, ICNo, Sex)
VALUES('ADMIN020', 'admin20@example.com', 'admin20', 'adminpass20', 'Admin Twenty',
'888899900', 'V8889900', 'F');

```

SELECT * FROM ADMIN;

USERID	STAFFEMAIL	USERNAME	PASSWORD	NAME	PHONE NO	ICNO	SEX
ADMIN007	admin7@example.com	admin7	adminpass7	Admin Seven	22233444	I223344	M
ADMIN008	admin8@example.com	admin8	adminpass8	Admin Eight	555666777	J556677	F
ADMIN009	admin9@example.com	admin9	adminpass9	Admin Nine	888999000	K8889900	M
ADMIN002	admin2@example.com	admin2	adminpass2	Admin Two	44455666	D4445566	F
ADMIN001	admin1@example.com	admin1	adminpass1	Admin One	11122333	C1112233	M
ADMIN003	admin3@example.com	admin3	adminpass3	Admin Three	777888999	E7778899	M
ADMIN006	admin6@example.com	admin6	adminpass6	Admin Six	66677888	H6667788	F
ADMIN020	admin20@example.com	admin20	adminpass20	Admin Twenty	88899900	V8889900	F
ADMIN017	admin17@example.com	admin17	adminpass17	Admin Seventeen	66677888	S6667788	M
ADMIN011	admin11@example.com	admin11	adminpass11	Admin Eleven	66677888	M6667788	M
ADMIN015	admin15@example.com	admin15	adminpass15	Admin Fifteen	999000111	Q99900111	M
ADMIN012	admin12@example.com	admin12	adminpass12	Admin Twelve	11112223	N1112223	F
ADMIN018	admin18@example.com	admin18	adminpass18	Admin Eighteen	22233444	T2223344	F
ADMIN004	admin4@example.com	admin4	adminpass4	Admin Four	999000111	F99900111	F
ADMIN005	admin5@example.com	admin5	adminpass5	Admin Five	123456789	G1234567	M
ADMIN014	admin14@example.com	admin14	adminpass14	Admin Fourteen	777888999	P7778899	F
ADMIN013	admin13@example.com	admin13	adminpass13	Admin Thirteen	44455556	O4445556	M
ADMIN019	admin19@example.com	admin19	adminpass19	Admin Nineteen	555666777	U556677	M
ADMIN010	admin10@example.com	admin10	adminpass10	Admin Ten	333444555	L33344455	F
ADMIN016	admin16@example.com	admin16	adminpass16	Admin Sixteen	123456789	R1234567	F

-- Insert data into CAR table

```

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR001', 'Toyota', 'Corolla', 'Sedan', 'Blue', 25.50);

```

```

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR002', 'Honda', 'Civic', 'Sedan', 'Silver', 30.00);

```

```

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR003', 'Ford', 'Focus', 'Hatchback', 'Red', 28.75);

```

```

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR004', 'Chevrolet', 'Malibu', 'Sedan', 'Black', 32.25);

```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR005', 'Nissan', 'Altima', 'Sedan', 'White', 27.80);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR006', 'Hyundai', 'Elantra', 'Sedan', 'Green', 26.00);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR007', 'Volkswagen', 'Jetta', 'Sedan', 'Gray', 29.50);
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR008', 'Mazda', 'Mazda3', 'Hatchback', 'Silver', 31.75);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR009', 'Kia', 'Optima', 'Sedan', 'Blue', 28.00);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR010', 'Subaru', 'Impreza', 'Hatchback', 'Black', 30.25);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR011', 'BMW', '3 Series', 'Sedan', 'White', 35.00);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR012', 'Mercedes-Benz', 'C-Class', 'Sedan', 'Red', 37.50);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR013', 'Audi', 'A4', 'Sedan', 'Blue', 34.25);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR014', 'Lexus', 'IS', 'Sedan', 'Silver', 36.80);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR015', 'Ford', 'Fusion', 'Sedan', 'Black', 33.75);
```

```
INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
```

VALUES ('CAR016', 'Chevrolet', 'Cruze', 'Sedan', 'Gray', 29.80);

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR017', 'Toyota', 'Camry', 'Sedan', 'White', 31.50);

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR018', 'Honda', 'Accord', 'Sedan', 'Blue', 33.25);

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR019', 'Nissan', 'Maxima', 'Sedan', 'Black', 35.50);

INSERT INTO CAR (CarID, CarBrand, CarModel, CarType, CarColour, Hour_Price)
VALUES ('CAR020', 'Hyundai', 'Sonata', 'Sedan', 'Silver', 30.75);

SELECT * FROM CAR;

CARID	CARBRAND	CARMODEL	CARTYPE	CARCOLOUR	HOUR_PRICE
CAR003	Ford	Focus	Hatchback	Red	28.75
CAR002	Honda	Civic	Sedan	Silver	30
CAR007	Volkswagen	Jetta	Sedan	Gray	29.5
CAR011	BMW	3 Series	Sedan	White	35
CAR001	Toyota	Corolla	Sedan	Blue	25.5
CAR004	Chevrolet	Malibu	Sedan	Black	32.25
CAR012	Mercedes-Benz	C-Class	Sedan	Red	37.5
CAR015	Audi	A4	Sedan	Blue	34.25
CAR016	Chevrolet	Cruze	Sedan	Gray	29.8
CAR005	Nissan	Altima	Sedan	White	27.8
CAR014	Lexus	IS	Sedan	Silver	36.8
CAR015	Ford	Fusion	Sedan	Black	33.75
CAR018	Honda	Accord	Sedan	Blue	33.25
CAR008	Mazda	Mazda3	Hatchback	Silver	31.75
CAR009	Kia	Optima	Sedan	Blue	28

CAR017	Toyota	Camry	Sedan	White	31.5
CAR019	Nissan	Maxima	Sedan	Black	35.5
CAR020	Hyundai	Sonata	Sedan	Silver	30.75
CAR006	Hyundai	Elantra	Sedan	Green	26
CAR010	Subaru	Impreza	Hatchback	Black	30.25

-- Insert data into ORDER table

INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)
VALUES ('ORDER002', TO_DATE('2024-02-01', 'YYYY-MM-DD'), TO_DATE('2024-02-10', 'YYYY-MM-DD'), TO_DATE('2024-02-15', 'YYYY-MM-DD'), TO_TIMESTAMP('12:00:00', 'HH24:MI:SS'), TO_TIMESTAMP('17:00:00', 'HH24:MI:SS'), 'CUST001', 'CAR002');

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,  
UserID, CarID)  
VALUES ('ORDER003', TO_DATE('2024-01-18', 'YYYY-MM-DD'), TO_DATE('2024-01-25',  
'YYYY-MM-DD'), TO_DATE('2024-01-30', 'YYYY-MM-DD'), TO_TIMESTAMP('09:00:00',  
'HH24:MI:SS'), TO_TIMESTAMP('14:00:00', 'HH24:MI:SS'), 'CUST002', 'CAR003');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,  
UserID, CarID)  
VALUES ('ORDER004', TO_DATE('2024-02-05', 'YYYY-MM-DD'), TO_DATE('2024-02-12',  
'YYYY-MM-DD'), TO_DATE('2024-02-18', 'YYYY-MM-DD'), TO_TIMESTAMP('11:00:00',  
'HH24:MI:SS'), TO_TIMESTAMP('16:00:00', 'HH24:MI:SS'), 'CUST002', 'CAR004');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,  
UserID, CarID)  
VALUES ('ORDER005', TO_DATE('2024-01-22', 'YYYY-MM-DD'), TO_DATE('2024-01-28',  
'YYYY-MM-DD'), TO_DATE('2024-02-02', 'YYYY-MM-DD'), TO_TIMESTAMP('14:00:00',  
'HH24:MI:SS'), TO_TIMESTAMP('19:00:00', 'HH24:MI:SS'), 'CUST003', 'CAR005');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,  
UserID, CarID)  
VALUES ('ORDER006', TO_DATE('2024-02-10', 'YYYY-MM-DD'), TO_DATE('2024-02-18',  
'YYYY-MM-DD'), TO_DATE('2024-02-25', 'YYYY-MM-DD'), TO_TIMESTAMP('10:30:00',  
'HH24:MI:SS'), TO_TIMESTAMP('15:30:00', 'HH24:MI:SS'), 'CUST003', 'CAR006');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,  
UserID, CarID)  
VALUES ('ORDER007', TO_DATE('2024-02-18', 'YYYY-MM-DD'), TO_DATE('2024-02-25',  
'YYYY-MM-DD'), TO_DATE('2024-03-03', 'YYYY-MM-DD'), TO_TIMESTAMP('13:00:00',  
'HH24:MI:SS'), TO_TIMESTAMP('18:00:00', 'HH24:MI:SS'), 'CUST004', 'CAR007');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,
UserID, CarID)
```

```
VALUES ('ORDER008', TO_DATE('2024-03-05', 'YYYY-MM-DD'), TO_DATE('2024-03-12',
'YYYY-MM-DD'), TO_DATE('2024-03-18', 'YYYY-MM-DD'), TO_TIMESTAMP('15:00:00',
'HH24:MI:SS'), TO_TIMESTAMP('20:00:00', 'HH24:MI:SS'), 'CUST004', 'CAR008');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,
UserID, CarID)
```

```
VALUES ('ORDER009', TO_DATE('2024-03-18', 'YYYY-MM-DD'), TO_DATE('2024-03-25',
'YYYY-MM-DD'), TO_DATE('2024-03-30', 'YYYY-MM-DD'), TO_TIMESTAMP('08:30:00',
'HH24:MI:SS'), TO_TIMESTAMP('13:30:00', 'HH24:MI:SS'), 'CUST005', 'CAR009');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,
UserID, CarID)
```

```
VALUES ('ORDER010', TO_DATE('2024-04-01', 'YYYY-MM-DD'), TO_DATE('2024-04-10',
'YYYY-MM-DD'), TO_DATE('2024-04-15', 'YYYY-MM-DD'), TO_TIMESTAMP('11:30:00',
'HH24:MI:SS'), TO_TIMESTAMP('16:30:00', 'HH24:MI:SS'), 'CUST005', 'CAR010');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,
UserID, CarID)
```

```
VALUES ('ORDER011', TO_DATE('2024-04-15', 'YYYY-MM-DD'), TO_DATE('2024-04-22',
'YYYY-MM-DD'), TO_DATE('2024-04-28', 'YYYY-MM-DD'), TO_TIMESTAMP('09:00:00',
'HH24:MI:SS'), TO_TIMESTAMP('14:00:00', 'HH24:MI:SS'), 'CUST006', 'CAR011');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,
UserID, CarID)
```

```
VALUES ('ORDER012', TO_DATE('2024-05-01', 'YYYY-MM-DD'), TO_DATE('2024-05-08',
'YYYY-MM-DD'), TO_DATE('2024-05-15', 'YYYY-MM-DD'), TO_TIMESTAMP('12:00:00',
'HH24:MI:SS'), TO_TIMESTAMP('17:00:00', 'HH24:MI:SS'), 'CUST006', 'CAR012');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime,
UserID, CarID)
```

```
VALUES ('ORDER013', TO_DATE('2024-05-15', 'YYYY-MM-DD'), TO_DATE('2024-05-22',
'YYYY-MM-DD'), TO_DATE('2024-05-28', 'YYYY-MM-DD'), TO_TIMESTAMP('14:30:00',
'HH24:MI:SS'), TO_TIMESTAMP('19:30:00', 'HH24:MI:SS'), 'CUST007', 'CAR013');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)
```

```
VALUES ('ORDER014', TO_DATE('2024-06-01', 'YYYY-MM-DD'), TO_DATE('2024-06-08', 'YYYY-MM-DD'), TO_DATE('2024-06-15', 'YYYY-MM-DD'), TO_TIMESTAMP('10:00:00', 'HH24:MI:SS'), TO_TIMESTAMP('15:00:00', 'HH24:MI:SS'), 'CUST007', 'CAR014');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)
```

```
VALUES ('ORDER015', TO_DATE('2024-06-15', 'YYYY-MM-DD'), TO_DATE('2024-06-22', 'YYYY-MM-DD'), TO_DATE('2024-06-28', 'YYYY-MM-DD'), TO_TIMESTAMP('12:30:00', 'HH24:MI:SS'), TO_TIMESTAMP('17:30:00', 'HH24:MI:SS'), 'CUST008', 'CAR015');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)
```

```
VALUES ('ORDER016', TO_DATE('2024-07-01', 'YYYY-MM-DD'), TO_DATE('2024-07-08', 'YYYY-MM-DD'), TO_DATE('2024-07-15', 'YYYY-MM-DD'), TO_TIMESTAMP('09:30:00', 'HH24:MI:SS'), TO_TIMESTAMP('14:30:00', 'HH24:MI:SS'), 'CUST008', 'CAR016');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)
```

```
VALUES ('ORDER017', TO_DATE('2024-07-15', 'YYYY-MM-DD'), TO_DATE('2024-07-22', 'YYYY-MM-DD'), TO_DATE('2024-07-28', 'YYYY-MM-DD'), TO_TIMESTAMP('14:00:00', 'HH24:MI:SS'), TO_TIMESTAMP('19:00:00', 'HH24:MI:SS'), 'CUST008', 'CAR017');
```

```
INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)
```

```
VALUES ('ORDER018', TO_DATE('2024-08-01', 'YYYY-MM-DD'), TO_DATE('2024-08-08', 'YYYY-MM-DD'), TO_DATE('2024-08-15', 'YYYY-MM-DD'), TO_TIMESTAMP('09:45:00', 'HH24:MI:SS'), TO_TIMESTAMP('14:45:00', 'HH24:MI:SS'), 'CUST009', 'CAR018');
```

INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)

VALUES ('ORDER019', TO_DATE('2024-08-15', 'YYYY-MM-DD'), TO_DATE('2024-08-22', 'YYYY-MM-DD'), TO_DATE('2024-08-28', 'YYYY-MM-DD'), TO_TIMESTAMP('11:15:00', 'HH24:MI:SS'), TO_TIMESTAMP('16:15:00', 'HH24:MI:SS'), 'CUST009', 'CAR019');

INSERT INTO ORDERS (OrderID, OrderDate, PickupDate, ReturnDate, PickupTime, ReturnTime, UserID, CarID)

VALUES ('ORDER020', TO_DATE('2024-09-01', 'YYYY-MM-DD'), TO_DATE('2024-09-08', 'YYYY-MM-DD'), TO_DATE('2024-09-15', 'YYYY-MM-DD'), TO_TIMESTAMP('13:45:00', 'HH24:MI:SS'), TO_TIMESTAMP('18:45:00', 'HH24:MI:SS'), 'CUST010', 'CAR020');

ORDERID	ORDERDATE	PICKUPDATE	RETURNDATE	PICKUPTIME	RETURNTIME	USERID	CARID
ORDER002	02/01/2024	02/10/2024	02/15/2024	01-JAN-24 12:00:00.000000 PM	01-JAN-24 05:00:00.000000 PM	CUST001	CAR002
ORDER003	01/18/2024	01/25/2024	01/30/2024	01-JAN-24 09:00:00.000000 AM	01-JAN-24 02:00:00.000000 PM	CUST002	CAR003
ORDER004	02/05/2024	02/12/2024	02/18/2024	01-JAN-24 11:00:00.000000 AM	01-JAN-24 04:00:00.000000 PM	CUST002	CAR004
ORDER006	02/10/2024	02/18/2024	02/25/2024	01-JAN-24 10:30:00.000000 AM	01-JAN-24 03:30:00.000000 PM	CUST003	CAR006
ORDER016	07/01/2024	07/08/2024	07/15/2024	01-JAN-24 09:30:00.000000 AM	01-JAN-24 02:30:00.000000 PM	CUST008	CAR016
ORDER001	01/15/2024	01/20/2024	01/25/2024	15-JAN-24 10:00:00.000000 AM	25-JAN-24 03:00:00.000000 PM	CUST001	CAR001
ORDER008	03/05/2024	03/12/2024	03/18/2024	01-JAN-24 03:00:00.000000 PM	01-JAN-24 08:00:00.000000 PM	CUST004	CAR008
ORDER007	02/18/2024	02/25/2024	03/03/2024	01-JAN-24 01:00:00.000000 PM	01-JAN-24 06:00:00.000000 PM	CUST004	CAR007
ORDER010	04/01/2024	04/10/2024	04/15/2024	01-JAN-24 11:30:00.000000 AM	01-JAN-24 04:30:00.000000 PM	CUST005	CAR010
ORDER011	04/15/2024	04/22/2024	04/28/2024	01-JAN-24 09:00:00.000000 AM	01-JAN-24 02:00:00.000000 PM	CUST006	CAR011
ORDER005	01/22/2024	01/28/2024	02/02/2024	01-JAN-24 02:00:00.000000 PM	01-JAN-24 07:00:00.000000 PM	CUST003	CAR005
ORDER006	02/10/2024	02/18/2024	02/25/2024	01-JAN-24 10:30:00.000000 AM	01-JAN-24 03:30:00.000000 PM	CUST003	CAR006
ORDER016	07/01/2024	07/08/2024	07/15/2024	01-JAN-24 09:30:00.000000 AM	01-JAN-24 02:30:00.000000 PM	CUST008	CAR016
ORDER001	01/15/2024	01/20/2024	01/25/2024	15-JAN-24 10:00:00.000000 AM	25-JAN-24 03:00:00.000000 PM	CUST001	CAR001
ORDER008	03/05/2024	03/12/2024	03/18/2024	01-JAN-24 05:00:00.000000 PM	01-JAN-24 08:00:00.000000 PM	CUST008	CAR008
ORDER007	02/18/2024	02/25/2024	03/03/2024	01-JAN-24 01:00:00.000000 PM	01-JAN-24 06:00:00.000000 PM	CUST004	CAR007
ORDER010	04/01/2024	04/10/2024	04/15/2024	01-JAN-24 11:30:00.000000 AM	01-JAN-24 04:30:00.000000 PM	CUST005	CAR010
ORDER011	04/15/2024	04/22/2024	04/28/2024	01-JAN-24 09:00:00.000000 AM	01-JAN-24 02:00:00.000000 PM	CUST006	CAR011
ORDER005	01/22/2024	01/28/2024	02/02/2024	01-JAN-24 02:00:00.000000 PM	01-JAN-24 07:00:00.000000 PM	CUST003	CAR005
ORDER009	03/18/2024	03/25/2024	03/30/2024	01-JAN-24 08:30:00.000000 AM	01-JAN-24 01:30:00.000000 PM	CUST005	CAR009
ORDER013	05/15/2024	05/22/2024	05/28/2024	01-JAN-24 02:30:00.000000 PM	01-JAN-24 07:30:00.000000 PM	CUST007	CAR013
ORDER017	07/15/2024	07/22/2024	07/28/2024	01-JAN-24 02:00:00.000000 PM	01-JAN-24 07:00:00.000000 PM	CUST008	CAR017
ORDER012	05/01/2024	05/08/2024	05/15/2024	01-JAN-24 12:00:00.000000 PM	01-JAN-24 05:00:00.000000 PM	CUST006	CAR012
ORDER018	08/01/2024	08/08/2024	08/15/2024	01-JAN-24 09:45:00.000000 AM	01-JAN-24 02:45:00.000000 PM	CUST009	CAR018
ORDER019	08/15/2024	08/22/2024	08/28/2024	01-JAN-24 11:15:00.000000 AM	01-JAN-24 04:15:00.000000 PM	CUST009	CAR019
ORDER014	06/01/2024	06/08/2024	06/15/2024	01-JAN-24 10:00:00.000000 AM	01-JAN-24 03:00:00.000000 PM	CUST007	CAR014
ORDER015	06/15/2024	06/22/2024	06/28/2024	01-JAN-24 12:30:00.000000 PM	01-JAN-24 05:30:00.000000 PM	CUST008	CAR015
ORDER020	09/01/2024	09/08/2024	09/15/2024	01-JAN-24 01:45:00.000000 PM	01-JAN-24 06:45:00.000000 PM	CUST010	CAR020

-- Insert data into PAYMENT table

INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID, UserID)

VALUES ('PAY001', 50.00, TO_DATE('2024-01-25', 'YYYY-MM-DD'), TO_TIMESTAMP('15:30:00', 'HH24:MI:SS'), 'Paid', 'ORDER001', 'CUST001');

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY002', 45.75, TO_DATE('2024-02-15', 'YYYY-MM-DD'), TO_TIMESTAMP('18:00:00',
'HH24:MI:SS'), 'Paid', 'ORDER002', 'CUST001');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY003', 60.50, TO_DATE('2024-01-30', 'YYYY-MM-DD'), TO_TIMESTAMP('14:45:00',
'HH24:MI:SS'), 'Pending', 'ORDER003', 'CUST002');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY004', 55.25, TO_DATE('2024-02-18', 'YYYY-MM-DD'), TO_TIMESTAMP('16:30:00',
'HH24:MI:SS'), 'Paid', 'ORDER004', 'CUST002');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY005', 40.80, TO_DATE('2024-02-02', 'YYYY-MM-DD'), TO_TIMESTAMP('19:15:00',
'HH24:MI:SS'), 'Paid', 'ORDER005', 'CUST003');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY006', 48.00, TO_DATE('2024-02-25', 'YYYY-MM-DD'), TO_TIMESTAMP('15:00:00',
'HH24:MI:SS'), 'Pending', 'ORDER006', 'CUST003');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY007', 55.50, TO_DATE('2024-03-03', 'YYYY-MM-DD'), TO_TIMESTAMP('18:45:00',
'HH24:MI:SS'), 'Pending', 'ORDER007', 'CUST004');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
```

```
VALUES ('PAY008', 62.75, TO_DATE('2024-03-18', 'YYYY-MM-DD'), TO_TIMESTAMP('20:00:00',  
'HH24:MI:SS'), 'Paid', 'ORDER008', 'CUST004');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,  
UserID)  
VALUES ('PAY009', 48.30, TO_DATE('2024-03-30', 'YYYY-MM-DD'), TO_TIMESTAMP('13:45:00',  
'HH24:MI:SS'), 'Paid', 'ORDER009', 'CUST005');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,  
UserID)  
VALUES ('PAY010', 51.25, TO_DATE('2024-04-15', 'YYYY-MM-DD'), TO_TIMESTAMP('16:15:00',  
'HH24:MI:SS'), 'Pending', 'ORDER010', 'CUST005');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,  
UserID)  
VALUES ('PAY011', 42.80, TO_DATE('2024-04-28', 'YYYY-MM-DD'), TO_TIMESTAMP('19:30:00',  
'HH24:MI:SS'), 'Paid', 'ORDER011', 'CUST006');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,  
UserID)  
VALUES ('PAY012', 47.75, TO_DATE('2024-05-15', 'YYYY-MM-DD'), TO_TIMESTAMP('17:00:00',  
'HH24:MI:SS'), 'Paid', 'ORDER012', 'CUST006');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,  
UserID)  
VALUES ('PAY013', 53.20, TO_DATE('2024-05-28', 'YYYY-MM-DD'), TO_TIMESTAMP('19:15:00',  
'HH24:MI:SS'), 'Pending', 'ORDER013', 'CUST007');
```

```
INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,  
UserID)  
VALUES ('PAY014', 50.50, TO_DATE('2024-06-15', 'YYYY-MM-DD'), TO_TIMESTAMP('15:30:00',  
'HH24:MI:SS'), 'Paid', 'ORDER014', 'CUST007');
```

```

INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY015', 57.75, TO_DATE('2024-06-28', 'YYYY-MM-DD'), TO_TIMESTAMP('17:45:00',
'HH24:MI:SS'), 'Paid', 'ORDER015', 'CUST008');


```

```

INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY016', 44.25, TO_DATE('2024-07-15', 'YYYY-MM-DD'), TO_TIMESTAMP('20:00:00',
'HH24:MI:SS'), 'Pending', 'ORDER016', 'CUST008');


```

```

INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY017', 49.80, TO_DATE('2024-07-28', 'YYYY-MM-DD'), TO_TIMESTAMP('14:15:00',
'HH24:MI:SS'), 'Paid', 'ORDER017', 'CUST009');


```

```

INSERT INTO PAYMENT (PaymentID, TotalAmount, PayDate, PayTime, PayStatus, OrderID,
UserID)
VALUES ('PAY018', 52.30, TO_DATE('2024-08-15', 'YYYY-MM-DD'), TO_TIMESTAMP('16:30:00',
'HH24:MI:SS'), 'Pending', 'ORDER018', 'CUST009');


```

PAYMENTID	TOTALAMOUNT	PAYDATE	PAYTIME	PAYSTATUS	ORDERID	USERID
PAY008	62.75	03/18/2024	01-JAN-24 08:00:00.000000 PM	Paid	ORDER008	CUST004
PAY018	52.3	08/15/2024	01-JAN-24 04:30:00.000000 PM	Paid	ORDER018	CUST009
PAY011	42.8	04/28/2024	01-JAN-24 07:30:00.000000 PM	Paid	ORDER011	CUST006
PAY003	60.5	01/30/2024	01-JAN-24 02:45:00.000000 PM	Pending	ORDER003	CUST002
PAY014	50.5	06/15/2024	01-JAN-24 03:30:00.000000 PM	Paid	ORDER014	CUST007
PAY015	57.75	06/28/2024	01-JAN-24 05:45:00.000000 PM	Paid	ORDER015	CUST008
PAY001	50	01/25/2024	01-JAN-24 03:30:00.000000 PM	Paid	ORDER001	CUST001
PAY010	51.25	04/15/2024	01-JAN-24 04:15:00.000000 PM	Pending	ORDER010	CUST005
PAY007	55.5	03/03/2024	01-JAN-24 06:45:00.000000 PM	Pending	ORDER007	CUST004
PAY020	59.25	09/15/2024	01-JAN-24 05:30:00.000000 PM	Paid	ORDER020	CUST010
PAY006	48	02/25/2024	01-JAN-24 03:00:00.000000 PM	Pending	ORDER006	CUST003
PAY002	45.75	02/15/2024	01-JAN-24 06:00:00.000000 PM	Paid	ORDER002	CUST001
PAY002	45.75	02/15/2024	01-JAN-24 06:00:00.000000 PM	Paid	ORDER002	CUST001
PAY017	49.8	07/28/2024	01-JAN-24 02:15:00.000000 PM	Paid	ORDER017	CUST009
PAY019	46.5	08/28/2024	01-JAN-24 06:45:00.000000 PM	Pending	ORDER019	CUST010
PAY009	48.3	03/30/2024	01-JAN-24 01:45:00.000000 PM	Paid	ORDER009	CUST005
PAY013	53.2	05/28/2024	01-JAN-24 07:15:00.000000 PM	Pending	ORDER013	CUST007
PAY012	47.75	05/15/2024	01-JAN-24 05:00:00.000000 PM	Paid	ORDER012	CUST006
PAY016	44.25	07/15/2024	01-JAN-24 08:00:00.000000 PM	Pending	ORDER016	CUST008
PAY004	55.25	02/18/2024	01-JAN-24 04:30:00.000000 PM	Paid	ORDER004	CUST002
PAY005	40.8	02/02/2024	01-JAN-24 07:15:00.000000 PM	Paid	ORDER005	CUST003

-- Insert data into PICKUP table

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK001', TO_DATE('2024-01-20', 'YYYY-MM-DD'), TO_TIMESTAMP('10:00:00',
'HH24:MI:SS'), 'ORDER001', 'CUST001');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK002', TO_DATE('2024-02-10', 'YYYY-MM-DD'), TO_TIMESTAMP('12:00:00',
'HH24:MI:SS'), 'ORDER002', 'CUST001');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK003', TO_DATE('2024-01-25', 'YYYY-MM-DD'), TO_TIMESTAMP('09:00:00',
'HH24:MI:SS'), 'ORDER003', 'CUST002');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK004', TO_DATE('2024-02-12', 'YYYY-MM-DD'), TO_TIMESTAMP('11:00:00',
'HH24:MI:SS'), 'ORDER004', 'CUST002');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK005', TO_DATE('2024-01-28', 'YYYY-MM-DD'), TO_TIMESTAMP('14:00:00',
'HH24:MI:SS'), 'ORDER005', 'CUST003');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK006', TO_DATE('2024-02-18', 'YYYY-MM-DD'), TO_TIMESTAMP('10:30:00',
'HH24:MI:SS'), 'ORDER006', 'CUST003');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK007', TO_DATE('2024-02-25', 'YYYY-MM-DD'), TO_TIMESTAMP('13:00:00',
'HH24:MI:SS'), 'ORDER007', 'CUST004');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK008', TO_DATE('2024-03-12', 'YYYY-MM-DD'), TO_TIMESTAMP('15:00:00',
'HH24:MI:SS'), 'ORDER008', 'CUST004');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK009', TO_DATE('2024-03-25', 'YYYY-MM-DD'), TO_TIMESTAMP('08:30:00',
'HH24:MI:SS'), 'ORDER009', 'CUST005');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK010', TO_DATE('2024-04-10', 'YYYY-MM-DD'), TO_TIMESTAMP('11:30:00',
'HH24:MI:SS'), 'ORDER010', 'CUST005');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK011', TO_DATE('2024-04-22', 'YYYY-MM-DD'), TO_TIMESTAMP('09:00:00',
'HH24:MI:SS'), 'ORDER011', 'CUST006');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK012', TO_DATE('2024-05-08', 'YYYY-MM-DD'), TO_TIMESTAMP('12:00:00',
'HH24:MI:SS'), 'ORDER012', 'CUST006');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK013', TO_DATE('2024-05-22', 'YYYY-MM-DD'), TO_TIMESTAMP('14:30:00',
'HH24:MI:SS'), 'ORDER013', 'CUST007');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK014', TO_DATE('2024-06-08', 'YYYY-MM-DD'), TO_TIMESTAMP('10:00:00',
'HH24:MI:SS'), 'ORDER014', 'CUST007');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK015', TO_DATE('2024-06-22', 'YYYY-MM-DD'), TO_TIMESTAMP('12:30:00',
'HH24:MI:SS'), 'ORDER015', 'CUST008');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK016', TO_DATE('2024-07-08', 'YYYY-MM-DD'), TO_TIMESTAMP('16:00:00',
'HH24:MI:SS'), 'ORDER016', 'CUST008');
```

```
INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES ('PICK017', TO_DATE('2024-07-25', 'YYYY-MM-DD'), TO_TIMESTAMP('18:15:00',
'HH24:MI:SS'), 'ORDER017', 'CUST009');
```

```

INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES('PICK018', TO_DATE('2024-08-08', 'YYYY-MM-DD'), TO_TIMESTAMP('09:30:00',
'HH24:MI:SS'), 'ORDER018', 'CUST009');

```

```

INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES('PICK019', TO_DATE('2024-08-22', 'YYYY-MM-DD'), TO_TIMESTAMP('11:45:00',
'HH24:MI:SS'), 'ORDER019', 'CUST010');

```

```

INSERT INTO PICKUP (PickID, pu_Date, pu_Time, OrderID, UserID)
VALUES('PICK020', TO_DATE('2024-09-08', 'YYYY-MM-DD'), TO_TIMESTAMP('13:15:00',
'HH24:MI:SS'), 'ORDER020', 'CUST010');

```

PICKID	PU_DATE	PU_TIME	ORDERID	USERID
PICK001	01/20/2024	01-JAN-24 10:00:00.000000 AM	ORDER001	CUST001
PICK015	06/22/2024	01-JAN-24 12:30:00.000000 PM	ORDER015	CUST008
PICK016	07/08/2024	01-JAN-24 04:00:00.000000 PM	ORDER016	CUST008
PICK003	01/25/2024	01-JAN-24 09:00:00.000000 AM	ORDER003	CUST002
PICK002	02/10/2024	01-JAN-24 12:00:00.000000 PM	ORDER002	CUST001
PICK004	02/12/2024	01-JAN-24 11:00:00.000000 AM	ORDER004	CUST002
PICK018	08/08/2024	01-JAN-24 09:30:00.000000 AM	ORDER018	CUST009
PICK005	01/28/2024	01-JAN-24 02:00:00.000000 PM	ORDER005	CUST003
PICK009	03/25/2024	01-JAN-24 08:30:00.000000 AM	ORDER009	CUST005
PICK011	04/22/2024	01-JAN-24 09:00:00.000000 AM	ORDER011	CUST006
PICK010	04/10/2024	01-JAN-24 11:30:00.000000 AM	ORDER010	CUST005
PICK008	03/12/2024	01-JAN-24 03:00:00.000000 PM	ORDER008	CUST004
PICK006	02/18/2024	01-JAN-24 10:30:00.000000 AM	ORDER006	CUST003
PICK007	02/25/2024	01-JAN-24 01:00:00.000000 PM	ORDER007	CUST004
PICK015	05/22/2024	01-JAN-24 02:30:00.000000 PM	ORDER015	CUST007
PICK017	07/25/2024	01-JAN-24 06:15:00.000000 PM	ORDER017	CUST009
PICK017	07/25/2024	01-JAN-24 06:15:00.000000 PM	ORDER017	CUST009
PICK020	09/08/2024	01-JAN-24 01:15:00.000000 PM	ORDER020	CUST010
PICK014	06/08/2024	01-JAN-24 10:00:00.000000 AM	ORDER014	CUST007
PICK019	08/22/2024	01-JAN-24 11:45:00.000000 AM	ORDER019	CUST010
PICK012	05/08/2024	01-JAN-24 12:00:00.000000 PM	ORDER012	CUST006

-- Insert data into RETURN table

```

INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET001', TO_DATE('2024-01-25', 'YYYY-MM-DD'), TO_TIMESTAMP('15:00:00',
'HH24:MI:SS'), 5, 'ORDER001', 'CUST001');

```

```

INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET002', TO_DATE('2024-02-15', 'YYYY-MM-DD'), TO_TIMESTAMP('17:00:00',
'HH24:MI:SS'), 5, 'ORDER002', 'CUST001');

```

```

INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)

```

```
VALUES('RET003', TO_DATE('2024-01-30', 'YYYY-MM-DD'), TO_TIMESTAMP('14:00:00',  
'HH24:MI:SS'), 5, 'ORDER003', 'CUST002');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET004', TO_DATE('2024-02-18', 'YYYY-MM-DD'), TO_TIMESTAMP('16:00:00',  
'HH24:MI:SS'), 5, 'ORDER004', 'CUST002');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET005', TO_DATE('2024-02-02', 'YYYY-MM-DD'), TO_TIMESTAMP('19:00:00',  
'HH24:MI:SS'), 5, 'ORDER005', 'CUST003');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET006', TO_DATE('2024-02-25', 'YYYY-MM-DD'), TO_TIMESTAMP('15:30:00',  
'HH24:MI:SS'), 5, 'ORDER006', 'CUST003');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET007', TO_DATE('2024-03-03', 'YYYY-MM-DD'), TO_TIMESTAMP('18:00:00',  
'HH24:MI:SS'), 5, 'ORDER007', 'CUST004');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET008', TO_DATE('2024-03-18', 'YYYY-MM-DD'), TO_TIMESTAMP('20:00:00',  
'HH24:MI:SS'), 5, 'ORDER008', 'CUST004');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET009', TO_DATE('2024-03-30', 'YYYY-MM-DD'), TO_TIMESTAMP('13:30:00',  
'HH24:MI:SS'), 5, 'ORDER009', 'CUST005');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET010', TO_DATE('2024-04-15', 'YYYY-MM-DD'), TO_TIMESTAMP('16:30:00',  
'HH24:MI:SS'), 5, 'ORDER010', 'CUST005');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)  
VALUES('RET011', TO_DATE('2024-04-28', 'YYYY-MM-DD'), TO_TIMESTAMP('19:00:00',  
'HH24:MI:SS'), 5, 'ORDER011', 'CUST006');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET012', TO_DATE('2024-05-15', 'YYYY-MM-DD'), TO_TIMESTAMP('17:00:00',
'HH24:MI:SS'), 5, 'ORDER012', 'CUST006');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET013', TO_DATE('2024-05-28', 'YYYY-MM-DD'), TO_TIMESTAMP('19:30:00',
'HH24:MI:SS'), 5, 'ORDER013', 'CUST007');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET014', TO_DATE('2024-06-15', 'YYYY-MM-DD'), TO_TIMESTAMP('15:00:00',
'HH24:MI:SS'), 5, 'ORDER014', 'CUST007');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET015', TO_DATE('2024-06-28', 'YYYY-MM-DD'), TO_TIMESTAMP('17:30:00',
'HH24:MI:SS'), 5, 'ORDER015', 'CUST008');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET016', TO_DATE('2024-07-15', 'YYYY-MM-DD'), TO_TIMESTAMP('20:00:00',
'HH24:MI:SS'), 5, 'ORDER016', 'CUST008');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET017', TO_DATE('2024-07-28', 'YYYY-MM-DD'), TO_TIMESTAMP('14:15:00',
'HH24:MI:SS'), 5, 'ORDER017', 'CUST009');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET018', TO_DATE('2024-08-15', 'YYYY-MM-DD'), TO_TIMESTAMP('16:30:00',
'HH24:MI:SS'), 5, 'ORDER018', 'CUST009');
```

```
INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET019', TO_DATE('2024-08-28', 'YYYY-MM-DD'), TO_TIMESTAMP('18:45:00',
'HH24:MI:SS'), 5, 'ORDER019', 'CUST010');
```

```

INSERT INTO RETURN (RetID, r_Date, r_Time, r_HoursUsage, OrderID, UserID)
VALUES('RET020', TO_DATE('2024-09-15', 'YYYY-MM-DD'), TO_TIMESTAMP('13:00:00',
'HH24:MI:SS'), 5, 'ORDER020', 'CUST010');

```

RETID	R_DATE	R_TIME	R_HOURSUSAGE	ORDERID	USERID
RET003	01/30/2024	01-JAN-24 02:00:00.000000 PM	5	ORDER003	CUST002
RET017	07/28/2024	01-JAN-24 02:15:00.000000 PM	5	ORDER017	CUST009
RET015	05/28/2024	01-JAN-24 07:30:00.000000 PM	5	ORDER015	CUST007
RET001	01/25/2024	01-JAN-24 03:00:00.000000 PM	5	ORDER001	CUST001
RET020	09/15/2024	01-JAN-24 01:00:00.000000 PM	5	ORDER020	CUST010
RET010	04/15/2024	01-JAN-24 04:30:00.000000 PM	5	ORDER010	CUST005
RET012	05/15/2024	01-JAN-24 05:00:00.000000 PM	5	ORDER012	CUST006
RET018	08/15/2024	01-JAN-24 04:30:00.000000 PM	5	ORDER018	CUST009
RET019	08/28/2024	01-JAN-24 06:45:00.000000 PM	5	ORDER019	CUST010
RET004	02/19/2024	01-JAN-24 04:00:00.000000 PM	5	ORDER004	CUST002
RET002	02/15/2024	01-JAN-24 05:00:00.000000 PM	5	ORDER002	CUST001
RET006	02/25/2024	01-JAN-24 03:30:00.000000 PM	5	ORDER006	CUST003
RET011	04/28/2024	01-JAN-24 07:00:00.000000 PM	5	ORDER011	CUST006
RET009	03/30/2024	01-JAN-24 01:30:00.000000 PM	5	ORDER009	CUST005
RET016	07/15/2024	01-JAN-24 08:00:00.000000 PM	5	ORDER016	CUST008
RET015	06/28/2024	01-JAN-24 05:30:00.000000 PM	5	ORDER015	CUST008
RET014	06/15/2024	01-JAN-24 03:00:00.000000 PM	5	ORDER014	CUST007
RET005	02/02/2024	01-JAN-24 07:00:00.000000 PM	5	ORDER005	CUST003
RET007	03/03/2024	01-JAN-24 06:00:00.000000 PM	5	ORDER007	CUST004
RET008	03/18/2024	01-JAN-24 08:00:00.000000 PM	5	ORDER008	CUST004

-- Inserting data into PENALTY table

```

INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN001', 50.00, 'CUST001', 'PAY001', 'ORDER001', 'RET001');

```

```

INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN002', 30.00, 'CUST002', 'PAY002', 'ORDER002', 'RET002');

```

```

INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN003', 40.00, 'CUST003', 'PAY003', 'ORDER003', 'RET003');

```

```

INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN004', 25.00, 'CUST004', 'PAY004', 'ORDER004', 'RET004');

```

```

INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN005', 35.00, 'CUST005', 'PAY005', 'ORDER005', 'RET005');

```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN006', 20.00, 'CUST006', 'PAY006', 'ORDER006', 'RET006');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN007', 45.00, 'CUST007', 'PAY007', 'ORDER007', 'RET007');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN008', 55.00, 'CUST008', 'PAY008', 'ORDER008', 'RET008');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN009', 60.00, 'CUST009', 'PAY009', 'ORDER009', 'RET009');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN010', 70.00, 'CUST010', 'PAY010', 'ORDER010', 'RET010');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN011', 80.00, 'CUST011', 'PAY011', 'ORDER011', 'RET011');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN012', 90.00, 'CUST012', 'PAY012', 'ORDER012', 'RET012');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN013', 100.00, 'CUST013', 'PAY013', 'ORDER013', 'RET013');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN014', 110.00, 'CUST014', 'PAY014', 'ORDER014', 'RET014');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN015', 120.00, 'CUST015', 'PAY015', 'ORDER015', 'RET015');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN016', 130.00, 'CUST016', 'PAY016', 'ORDER016', 'RET016');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN017', 140.00, 'CUST017', 'PAY017', 'ORDER017', 'RET017');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN018', 150.00, 'CUST018', 'PAY018', 'ORDER018', 'RET018');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN019', 160.00, 'CUST019', 'PAY019', 'ORDER019', 'RET019');
```

```
INSERT INTO PENALTY (PenaltyID, PenaltyAmount, UserID, PaymentID, OrderID, RetID)
VALUES('PEN020', 170.00, 'CUST020', 'PAY020', 'ORDER020', 'RET020');
```

```
SELECT * FROM PENALTY;
```

PENALTYID	PENALTYAMOUNT	USERID	PAYMENTID	ORDERID	RETID
PEN010	70	CUST010	PAY010	ORDER010	RET010
PEN002	30	CUST002	PAY002	ORDER002	RET002
PEN001	50	CUST001	PAY001	ORDER001	RET001
PEN004	25	CUST004	PAY004	ORDER004	RET004
PEN008	55	CUST008	PAY008	ORDER008	RET008
PEN020	170	CUST020	PAY020	ORDER020	RET020
PEN003	40	CUST003	PAY003	ORDER003	RET003
PEN015	120	CUST015	PAY015	ORDER015	RET015
PEN007	45	CUST007	PAY007	ORDER007	RET007
PEN012	90	CUST012	PAY012	ORDER012	RET012
PEN017	140	CUST017	PAY017	ORDER017	RET017

PEN005	35	CUST005	PAY005	ORDER005	RET005
PEN009	60	CUST009	PAY009	ORDER009	RET009
PEN011	80	CUST011	PAY011	ORDER011	RET011
PEN016	130	CUST016	PAY016	ORDER016	RET016
PEN014	110	CUST014	PAY014	ORDER014	RET014
PEN018	150	CUST018	PAY018	ORDER018	RET018
PEN019	160	CUST019	PAY019	ORDER019	RET019
PEN006	20	CUST006	PAY006	ORDER006	RET006
PEN013	100	CUST013	PAY013	ORDER013	RET013

-- Insert data into INVENTORYUPDATE table

INSERT INTO INVENTORYUPDATE (UpdateType, UpdateDateTime, AvailabilityStatus, UserID, CarID)

VALUES('Booked', TIMESTAMP '2024-01-15 00:00:00', 'Unavailable', 'ADMIN001', 'CAR001');

INSERT INTO INVENTORYUPDATE (UpdateType, UpdateDateTime, AvailabilityStatus, UserID, CarID)

VALUES('Cleaning', TIMESTAMP '2024-02-01 00:00:00', 'Booked', 'ADMIN001', 'CAR002');

INSERT INTO INVENTORYUPDATE (UpdateType, UpdateDateTime, AvailabilityStatus, UserID, CarID)

VALUES('Repair', TIMESTAMP '2024-01-18 00:00:00', 'Unavailable', 'ADMIN002', 'CAR003');

INSERT INTO INVENTORYUPDATE (UpdateType, UpdateDateTime, AvailabilityStatus, UserID, CarID)

VALUES('Maintenance', TIMESTAMP '2024-02-05 00:00:00', 'Unavailable', 'ADMIN002', 'CAR004');

INSERT INTO INVENTORYUPDATE (UpdateType, UpdateDateTime, AvailabilityStatus, UserID, CarID)

VALUES('In Used', TIMESTAMP '2024-01-22 00:00:00', 'Booked', 'ADMIN003', 'CAR005');

INSERT INTO INVENTORYUPDATE (UpdateType, UpdateDateTime, AvailabilityStatus, UserID, CarID)

VALUES('Repair', TIMESTAMP '2024-02-10 00:00:00', 'Reserved', 'ADMIN003', 'CAR006');

INSERT INTO INVENTORYUPDATE (UpdateType, UpdateDateTime, AvailabilityStatus, UserID, CarID)

VALUES('Maintenance', TIMESTAMP '2024-02-18 00:00:00', 'Booked', 'ADMIN004', 'CAR007');

UPDATETYPE	UPDATEDATETIME	AVAILABILITYSTATUS	USERID	CARID
Booked	15-JAN-24 12:00:00.000000 AM	Unavailable	ADMIN001	CAR001
Maintenance	18-FEB-24 12:00:00.000000 AM	Booked	ADMIN004	CAR007
Repair	18-JAN-24 12:00:00.000000 AM	Unavailable	ADMIN002	CAR003
Repair	10-FEB-24 12:00:00.000000 AM	Reserved	ADMIN003	CAR006
Cleaning	01-FEB-24 12:00:00.000000 AM	Booked	ADMIN001	CAR002
Maintenance	05-FEB-24 12:00:00.000000 AM	Unavailable	ADMIN002	CAR004
In Used	22-JAN-24 12:00:00.000000 AM	Booked	ADMIN003	CAR005

--Update InventoryUpdates table

```
UPDATE INVENTORYUPDATE
SET AvailabilityStatus = 'Available'
WHERE CarID IN ('CAR002', 'CAR003', 'CAR004');
```

--View InventoryUpdate table

```
SELECT * FROM INVENTORYUPDATE;
```

UPDATETYPE	UPDATEDATETIME	AVAILABILITYSTATUS	USERID	CARID
Booked	15-JAN-24 12:00:00.000000 AM	Unavailable	ADMIN001	CAR001
Cleaning	01-FEB-24 12:00:00.000000 AM	Available	ADMIN001	CAR002
Cleaning	15-APR-24 12:00:00.000000 AM	Reserved	ADMIN006	CAR011
Maintenance	01-JUL-24 12:00:00.000000 AM	Booked	ADMIN008	CAR016
Repair	18-JAN-24 12:00:00.000000 AM	Available	ADMIN002	CAR005
Maintenance	05-FEB-24 12:00:00.000000 AM	Available	ADMIN002	CAR004
Maintenance	01-APR-24 12:00:00.000000 AM	Booked	ADMIN005	CAR010
Maintenance	15-MAY-24 12:00:00.000000 AM	Booked	ADMIN007	CAR013
Cleaning	01-JUN-24 12:00:00.000000 AM	Reserved	ADMIN007	CAR014
Repair	15-JUN-24 12:00:00.000000 AM	Available	ADMIN008	CAR015
Maintenance	15-AUG-24 12:00:00.000000 AM	Booked	ADMIN010	CAR019
Maintenance	18-FEB-24 12:00:00.000000 AM	Booked	ADMIN004	CAR007
Repair	01-MAY-24 12:00:00.000000 AM	Available	ADMIN006	CAR012
Repair	01-AUG-24 12:00:00.000000 AM	Available	ADMIN009	CAR018
Cleaning	15-JUL-24 12:00:00.000000 AM	Reserved	ADMIN009	CAR017
In Used	22-JAN-24 12:00:00.000000 AM	Booked	ADMIN003	CAR005
Repair	18-MAR-24 12:00:00.000000 AM	Available	ADMIN005	CAR009
Repair	10-FEB-24 12:00:00.000000 AM	Reserved	ADMIN003	CAR006
Cleaning	01-SEP-24 12:00:00.000000 AM	Reserved	ADMIN010	CAR020

--Delete Data in pickup Table

```
DELETE FROM PICKUP
WHERE PickID = 'PICK003';
```

--View Pickup table

```
SELECT * FROM PICKUP;
```

PICKID	PU_DATE	PU_TIME	ORDERID	USERID
PICK001	01/20/2024	01-JAN-24 10:00:00.000000 AM	ORDER001	CUST001
PICK015	06/22/2024	01-JAN-24 12:30:00.000000 PM	ORDER015	CUST008
PICK016	07/08/2024	01-JAN-24 04:00:00.000000 PM	ORDER016	CUST008
PICK002	02/10/2024	01-JAN-24 12:00:00.000000 PM	ORDER002	CUST001
PICK004	02/12/2024	01-JAN-24 11:00:00.000000 AM	ORDER004	CUST002
PICK018	08/08/2024	01-JAN-24 09:30:00.000000 AM	ORDER018	CUST009
PICK005	01/28/2024	01-JAN-24 02:00:00.000000 PM	ORDER005	CUST003
PICK009	03/25/2024	01-JAN-24 08:30:00.000000 AM	ORDER009	CUST005
PICK011	04/22/2024	01-JAN-24 09:00:00.000000 AM	ORDER011	CUST006
PICK010	04/10/2024	01-JAN-24 11:30:00.000000 AM	ORDER010	CUST005
PICK008	03/12/2024	01-JAN-24 03:00:00.000000 PM	ORDER008	CUST004
PICK006	02/18/2024	01-JAN-24 10:30:00.000000 AM	ORDER006	CUST003
PICK007	02/25/2024	01-JAN-24 01:00:00.000000 PM	ORDER007	CUST004
PICK013	05/22/2024	01-JAN-24 02:30:00.000000 PM	ORDER013	CUST007
PICK017	07/25/2024	01-JAN-24 06:15:00.000000 PM	ORDER017	CUST009
PICK020	09/08/2024	01-JAN-24 01:15:00.000000 PM	ORDER020	CUST010
PICK014	06/08/2024	01-JAN-24 10:00:00.000000 AM	ORDER014	CUST007
PICK019	08/22/2024	01-JAN-24 11:45:00.000000 AM	ORDER019	CUST010
PICK012	05/08/2024	01-JAN-24 12:00:00.000000 PM	ORDER012	CUST006

--Select car who availability LIKE 'Available'

```
SELECT CarID, AvailabilityStatus
FROM INVENTORYUPDATE
WHERE AvailabilityStatus LIKE 'Available';
```

CARID	AVAILABILITYSTATUS
CAR002	Available
CAR003	Available
CAR004	Available
CAR015	Available
CAR012	Available
CAR018	Available
CAR009	Available

--Literal String , Column Aliases , Join

```
SELECT
'The car with ID ' || c.CarID || ' and ' || c.CarBrand || ' brand has availability status ' ||
i.AvailabilityStatus AS CarAvailabilityStatus
FROM CAR c
JOIN INVENTORYUPDATE i ON c.CarID = i.CarID
WHERE c.CarBrand = 'Toyota';
```

CARAVAILABILITYSTATUS
The car with ID CAR001 and Toyota brand has availability status Unavailable
The car with ID CAR017 and Toyota brand has availability status Reserved

--Select customer who already have penalty .

SELECT

```
C.UserID,
C.Name,
P.PenaltyAmount
FROM CUSTOMER C
JOIN PENALTY P ON C.UserID = P.UserID;
```

USERID	NAME	PENALTYAMOUNT
CUST012	Ian Parker	90
CUST018	Oscar Smith	150
CUST005	Eva White	35
CUST010	George Wilson	70
CUST002	Jane Doe	30
CUST003	Alice Smith	40
CUST006	Chris Brown	20
CUST001	John Doe	50
CUST007	Diana Miller	45
CUST008	Edward Davis	55
CUST009	Fiona Taylor	60
CUST015	Jessica Reed	100
CUST014	Keith Fisher	110
CUST015	Linda Turner	120
CUST016	Michael Evans	130
CUST004	Bob Johnson	25

CUST017	Nina Carter	140
CUST020	Quincy Brown	170
CUST011	Helen Turner	80
CUST019	Paula Davis	160

--Retrieve all customers with their respective order using JOIN.

SELECT *

```
FROM CUSTOMER
LEFT JOIN ORDERS ON CUSTOMER.UserID = ORDERS.UserID;
```

USERID	CUSTEMAIL	USERNAME	PASSWORD	NAME	PHONENO	ICNO	SEX	ORDERID	ORDERDATE	PICKUPDATE	RETURNDATE	PICKUPTIME	RETURNTIME	USERID	CARID
CUST001	cust1@example.com	customer1	password1	John Doe	123456789	A1234567	M	ORDER002	02/01/2024	02/10/2024	02/15/2024	01-JAN-24 12:00:00.000000 AM	01-JAN-24 05:00:00.000000 PM	CUST001	CAR002
CUST002	cust2@example.com	customer2	password2	Jane Doe	987654321	B9876543	F	ORDER003	01/18/2024	01/25/2024	01/30/2024	01-JAN-24 09:00:00.000000 AM	01-JAN-24 02:00:00.000000 PM	CUST002	CAR003
CUST002	cust2@example.com	customer2	password2	Jane Doe	987654321	B9876543	F	ORDER004	02/05/2024	02/12/2024	02/18/2024	01-JAN-24 11:00:00.000000 AM	01-JAN-24 04:00:00.000000 PM	CUST002	CAR004
CUST003	cust3@example.com	customer3	password3	Alice Smith	555666777	C5556677	F	ORDER006	02/10/2024	02/18/2024	02/25/2024	01-JAN-24 10:30:00.000000 AM	01-JAN-24 03:30:00.000000 PM	CUST003	CAR006
CUST008	cust8@example.com	customer8	password8	Edward Davis	666777888	H6667788	M	ORDER016	07/01/2024	07/08/2024	07/15/2024	01-JAN-24 09:30:00.000000 AM	01-JAN-24 02:30:00.000000 PM	CUST008	CAR016
CUST001	cust1@example.com	customer1	password1	John Doe	123456789	A1234567	M	ORDER001	01/15/2024	01/20/2024	01/25/2024	15-JAN-24 10:00:00.000000 AM	25-JAN-24 03:00:00.000000 PM	CUST001	CAR001
CUST004	cust4@example.com	customer4	password4	Bob Johnson	111222333	D1112233	M	ORDER008	03/05/2024	03/12/2024	03/18/2024	01-JAN-24 03:00:00.000000 PM	01-JAN-24 08:00:00.000000 PM	CUST004	CAR008
CUST004	cust4@example.com	customer4	password4	Bob Johnson	111222333	D1112233	M	ORDER007	02/18/2024	02/25/2024	03/03/2024	01-JAN-24 01:00:00.000000 PM	01-JAN-24 06:00:00.000000 PM	CUST004	CAR007
CUST005	cust5@example.com	customer5	password5	Eva White	444555666	E4445566	F	ORDER010	04/01/2024	04/10/2024	04/15/2024	01-JAN-24 11:30:00.000000 AM	01-JAN-24 04:30:00.000000 PM	CUST005	CAR010
CUST006	cust6@example.com	customer6	password6	Chris Brown	999000111	F9990011	M	ORDER011	04/15/2024	04/22/2024	04/28/2024	01-JAN-24 09:00:00.000000 AM	01-JAN-24 02:00:00.000000 PM	CUST006	CAR011
CUST003	cust3@example.com	customer3	password3	Alice Smith	555666777	C5556677	F	ORDER005	01/22/2024	01/28/2024	02/02/2024	01-JAN-24 10:30:00.000000 AM	01-JAN-24 03:30:00.000000 PM	CUST003	CAR005
CUST005	cust5@example.com	customer5	password5	Eva White	444555666	E4445566	F	ORDER009	03/18/2024	03/25/2024	03/30/2024	01-JAN-24 08:30:00.000000 AM	01-JAN-24 01:30:00.000000 PM	CUST005	CAR009
CUST007	cust7@example.com	customer7	password7	Diana Miller	222333444	G2223344	F	ORDER015	05/15/2024	05/22/2024	05/28/2024	01-JAN-24 02:50:00.000000 PM	01-JAN-24 07:30:00.000000 PM	CUST007	CAR013
CUST008	cust8@example.com	customer8	password8	Edward Davis	666777888	H6667788	M	ORDER017	07/15/2024	07/22/2024	07/28/2024	01-JAN-24 02:00:00.000000 PM	01-JAN-24 07:00:00.000000 PM	CUST008	CAR017
CUST006	cust6@example.com	customer6	password6	Chris Brown	999000111	F9990011	M	ORDER012	05/01/2024	05/08/2024	05/15/2024	01-JAN-24 12:00:00.000000 PM	01-JAN-24 05:00:00.000000 PM	CUST006	CAR012
CUST009	cust9@example.com	customer9	password9	Fiona Taylor	333444555	I3334455	F	ORDER018	08/01/2024	08/08/2024	08/15/2024	01-JAN-24 09:45:00.000000 AM	01-JAN-24 02:45:00.000000 PM	CUST009	CAR018
CUST009	cust9@example.com	customer9	password9	Fiona Taylor	333444555	I3334455	F	ORDER019	08/15/2024	08/22/2024	08/28/2024	01-JAN-24 11:15:00.000000 AM	01-JAN-24 04:15:00.000000 PM	CUST009	CAR019
CUST007	cust7@example.com	customer7	password7	Diana Miller	222333444	G2223344	F	ORDER014	06/01/2024	06/08/2024	06/15/2024	01-JAN-24 10:00:00.000000 AM	01-JAN-24 03:00:00.000000 PM	CUST007	CAR014
CUST008	cust8@example.com	customer8	password8	Edward Davis	666777888	H6667788	M	ORDER015	06/15/2024	06/22/2024	06/28/2024	01-JAN-24 12:30:00.000000 PM	01-JAN-24 05:30:00.000000 PM	CUST008	CAR015
CUST010	cust10@example.com	customer10	password10	George Wilson	888999000	J8889900	M	ORDER020	09/01/2024	09/08/2024	09/15/2024	01-JAN-24 01:45:00.000000 PM	01-JAN-24 06:45:00.000000 PM	CUST010	CAR020

--Retrieve all cars with their respective update using JOIN.

SELECT

CAR.CarID,

CAR.CarBrand,

CAR.CarModel,

CAR.CarType,

CAR.CarColour,

IU.UpdateType,

IU.UpdateDateTime,

IU.AvailabilityStatus

FROM CAR

JOIN INVENTORYUPDATE IU ON CAR.CarID = IU.CarID;

CARID	CARBRAND	CARMODEL	CARTYPE	CARCOLOUR	UPDATETYPE	UPDATEDATETIME	AVAILABILITYSTATUS
CAR003	Ford	Focus	Hatchback	Red	Repair	18-JAN-24 12:00:00.000000 AM	Unavailable
CAR002	Honda	Civic	Sedan	Silver	Cleaning	01-FEB-24 12:00:00.000000 AM	Unavailable
CAR007	Volkswagen	Jetta	Sedan	Gray	Maintenance	18-FEB-24 12:00:00.000000 AM	Booked
CAR011	BMW	3 Series	Sedan	White	Cleaning	15-APR-24 12:00:00.000000 AM	Reserved
CAR001	Toyota	Corolla	Sedan	Blue	Booked	15-JAN-24 12:00:00.000000 AM	Unavailable
CAR004	Chevrolet	Malibu	Sedan	Black	Maintenance	05-FEB-24 12:00:00.000000 AM	Unavailable
CAR012	Mercedes-Benz	C-Class	Sedan	Red	Repair	01-MAY-24 12:00:00.000000 AM	Available
CAR013	Audi	A4	Sedan	Blue	Maintenance	15-MAY-24 12:00:00.000000 AM	Booked
CAR016	Chevrolet	Cruze	Sedan	Gray	Maintenance	01-JUL-24 12:00:00.000000 AM	Booked
CAR005	Nissan	Altima	Sedan	White	In Used	22-JAN-24 12:00:00.000000 AM	Booked
CAR014	Lexus	IS	Sedan	Silver	Cleaning	01-JUN-24 12:00:00.000000 AM	Reserved
CAR015	Ford	Fusion	Sedan	Black	Repair	15-JUN-24 12:00:00.000000 AM	Available
CAR018	Honda	Accord	Sedan	Blue	Repair	01-AUG-24 12:00:00.000000 AM	Available
CAR009	Kia	Optima	Sedan	Blue	Repair	18-MAR-24 12:00:00.000000 AM	Available
CAR017	Toyota	Camry	Sedan	White	Cleaning	15-JUL-24 12:00:00.000000 AM	Reserved
CAR019	Nissan	Maxima	Sedan	Black	Maintenance	15-AUG-24 12:00:00.000000 AM	Booked
CAR020	Hyundai	Sonata	Sedan	Silver	Cleaning	01-SEP-24 12:00:00.000000 AM	Reserved
CAR006	Hyundai	Elantra	Sedan	Green	Repair	10-FEB-24 12:00:00.000000 AM	Reserved
CAR010	Subaru	Impreza	Hatchback	Black	Maintenance	01-APR-24 12:00:00.000000 AM	Booked

--Retrieve order by Female customer only.

```
SELECT o.OrderID, o.OrderDate
FROM "ORDERS" o
JOIN CUSTOMER c ON o.UserID = c.UserID
WHERE c.Sex = 'F';
```

ORDERID	ORDERDATE
ORDER003	01/18/2024
ORDER004	02/05/2024
ORDER006	02/10/2024
ORDER010	04/01/2024
ORDER005	01/22/2024
ORDER009	03/18/2024
ORDER013	05/15/2024
ORDER018	08/01/2024
ORDER019	08/15/2024
ORDER014	06/01/2024

-- Retrieve customers who have made payments

```
SELECT c.Name AS CustomerName
FROM CUSTOMER c
WHERE c.UserID IN (SELECT DISTINCT UserID FROM PAYMENT);
```

CUSTOMERNAME
Bob Johnson
Fiona Taylor
Chris Brown
Jane Doe
Diana Miller
Edward Davis
John Doe
Eva White
George Wilson
Alice Smith

-- Retrieve order details with customer and car information

```
SELECT o.OrderID, o.OrderDate, c.Name AS CustomerName, ca.CarBrand, ca.CarModel
FROM "ORDERS" o
JOIN CUSTOMER c ON o.UserID = c.UserID
JOIN CAR ca ON o.CarID = ca.CarID;
```

ORDERID	ORDERDATE	CUSTOMERNAME	CARBRAND	CARMODEL
ORDER003	01/18/2024	Jane Doe	Ford	Focus
ORDER002	02/01/2024	John Doe	Honda	Civic
ORDER007	02/18/2024	Bob Johnson	Volkswagen	Jetta
ORDER011	04/15/2024	Chris Brown	BMW	3 Series
ORDER001	01/15/2024	John Doe	Toyota	Corolla
ORDER004	02/05/2024	Jane Doe	Chevrolet	Malibu
ORDER012	05/01/2024	Chris Brown	Mercedes-Benz	C-Class
ORDER015	05/15/2024	Diana Miller	Audi	A4
ORDER016	07/01/2024	Edward Davis	Chevrolet	Cruze
ORDER005	01/22/2024	Alice Smith	Nissan	Altima
ORDER014	06/01/2024	Diana Miller	Lexus	IS
ORDER015	06/15/2024	Edward Davis	Ford	Fusion
ORDER018	08/01/2024	Fiona Taylor	Honda	Accord
ORDER008	03/05/2024	Bob Johnson	Mazda	Mazda3
ORDER009	03/18/2024	Eva White	Kia	Optima
ORDER017	07/15/2024	Edward Davis	Toyota	Camry
ORDER019	08/15/2024	Fiona Taylor	Nissan	Maxima
ORDER020	09/01/2024	George Wilson	Hyundai	Sonata
ORDER006	02/10/2024	Alice Smith	Hyundai	Elantra
ORDER010	04/01/2024	Eva White	Subaru	Impreza

-- Cartesian product of CUSTOMER and CAR

```
SELECT c.Name AS CustomerName, ca.CarBrand, ca.CarModel
FROM CUSTOMER c
CROSS JOIN CAR ca;
```

CUSTOMERNAME	CARBRAND	CARMODEL
Bob Johnson	Ford	Focus
Bob Johnson	Honda	Civic
Bob Johnson	Volkswagen	Jetta
Bob Johnson	BMW	3 Series
Bob Johnson	Toyota	Corolla
Bob Johnson	Chevrolet	Malibu
Bob Johnson	Mercedes-Benz	C-Class
Bob Johnson	Audi	A4
Bob Johnson	Chevrolet	Cruze
Bob Johnson	Nissan	Altima
Bob Johnson	Lexus	IS
Bob Johnson	Honda	Accord
Bob Johnson	Mazda	Mazda3
Bob Johnson	Kia	Optima
Bob Johnson	Toyota	Camry
Bob Johnson	Nissan	Maxima
Bob Johnson	Hyundai	Sonata
Bob Johnson	Hyundai	Elantra
Bob Johnson	Subaru	Impreza

-Self Join

SELECT

```
o.OrderID,  
o.OrderDate,  
o.PickupDate,  
o.ReturnDate,  
o.PickupTime,  
o.ReturnTime,  
o.UserID AS CustomerID,  
c.Name AS CustomerName,  
c.CustEmail AS CustomerEmail  
  
FROM "ORDERS" o  
JOIN CUSTOMER c ON o.UserID = c.UserID;
```

ORDERID	ORDERDATE	PICKUPDATE	RETURNDATE	PICKUPTIME	RETURNTIME	CUSTOMERID	CUSTOMERNAME	CUSTOMEREMAIL
ORDER008	03/05/2024	03/12/2024	03/18/2024	01-JAN-24 03:00:00.000000 PM	01-JAN-24 08:00:00.000000 PM	CUST004	Bob Johnson	cust4@example.com
ORDER007	02/18/2024	02/25/2024	03/03/2024	01-JAN-24 01:00:00.000000 PM	01-JAN-24 06:00:00.000000 PM	CUST004	Bob Johnson	cust4@example.com
ORDER018	08/01/2024	08/08/2024	08/15/2024	01-JAN-24 09:45:00.000000 AM	01-JAN-24 02:45:00.000000 PM	CUST009	Fiona Taylor	cust9@example.com
ORDER019	08/15/2024	08/22/2024	08/28/2024	01-JAN-24 11:15:00.000000 AM	01-JAN-24 04:15:00.000000 PM	CUST009	Fiona Taylor	cust9@example.com
ORDER002	02/01/2024	02/10/2024	02/15/2024	01-JAN-24 12:00:00.000000 PM	01-JAN-24 05:00:00.000000 PM	CUST001	John Doe	cust1@example.com
ORDER001	01/15/2024	01/20/2024	01/25/2024	15-JAN-24 10:00:00.000000 AM	25-JAN-24 03:00:00.000000 PM	CUST001	John Doe	cust1@example.com
ORDER005	01/18/2024	01/25/2024	01/30/2024	01-JAN-24 09:00:00.000000 AM	01-JAN-24 02:00:00.000000 PM	CUST002	Jane Doe	cust2@example.com
ORDER004	02/05/2024	02/12/2024	02/18/2024	01-JAN-24 11:00:00.000000 AM	01-JAN-24 04:00:00.000000 PM	CUST002	Jane Doe	cust2@example.com
ORDER006	02/10/2024	02/18/2024	02/25/2024	01-JAN-24 10:30:00.000000 AM	01-JAN-24 03:30:00.000000 PM	CUST003	Alice Smith	cust3@example.com
ORDER005	01/22/2024	01/28/2024	02/02/2024	01-JAN-24 02:00:00.000000 PM	01-JAN-24 07:00:00.000000 PM	CUST003	Alice Smith	cust3@example.com

ORDER020	09/01/2024	09/08/2024	09/15/2024	01-JAN-24 01:45:00.000000 PM	01-JAN-24 06:45:00.000000 PM	CUST010	George Wilson	cust10@example.com
ORDER010	04/01/2024	04/10/2024	04/15/2024	01-JAN-24 11:30:00.000000 AM	01-JAN-24 04:30:00.000000 PM	CUST005	Eva White	cust5@example.com
ORDER009	03/18/2024	03/25/2024	03/30/2024	01-JAN-24 08:30:00.000000 AM	01-JAN-24 01:30:00.000000 PM	CUST005	Eva White	cust5@example.com
ORDER011	04/15/2024	04/22/2024	04/28/2024	01-JAN-24 09:00:00.000000 AM	01-JAN-24 02:00:00.000000 PM	CUST006	Chris Brown	cust6@example.com
ORDER012	05/01/2024	05/08/2024	05/15/2024	01-JAN-24 12:00:00.000000 PM	01-JAN-24 05:00:00.000000 PM	CUST006	Chris Brown	cust6@example.com
ORDER013	05/15/2024	05/22/2024	05/28/2024	01-JAN-24 02:30:00.000000 PM	01-JAN-24 07:30:00.000000 PM	CUST007	Diana Miller	cust7@example.com
ORDER014	06/01/2024	06/08/2024	06/15/2024	01-JAN-24 10:00:00.000000 AM	01-JAN-24 03:00:00.000000 PM	CUST007	Diana Miller	cust7@example.com
ORDER016	07/01/2024	07/08/2024	07/15/2024	01-JAN-24 09:30:00.000000 AM	01-JAN-24 02:30:00.000000 PM	CUST008	Edward Davis	cust8@example.com
ORDER017	07/15/2024	07/22/2024	07/28/2024	01-JAN-24 02:00:00.000000 PM	01-JAN-24 07:00:00.000000 PM	CUST008	Edward Davis	cust8@example.com
ORDER015	06/15/2024	06/22/2024	06/28/2024	01-JAN-24 12:30:00.000000 PM	01-JAN-24 05:30:00.000000 PM	CUST008	Edward Davis	cust8@example.com

7.0 Summary

During this phase, we executed the logical design of the HASTA Car Rental database and implemented it using SQL. Our primary task involved converting the conceptual Entity Relationship Diagram (ERD) from phase 2 into a logical ERD. This transformation was achieved by establishing functional dependencies between relationships, based on the updated business rules. We then generated relation schemas from the resulting logical ERD, followed by normalizing the data from the first normal form (1NF) to Boyce-Codd normal form (BCNF) to minimize data redundancy and enhance the database's integrity, ensuring its suitability for future work.

Simultaneously, we updated the data dictionary to reflect changes from the normalization of the logical ERD. Maintaining an updated data dictionary is crucial, as it offers detailed information about all attributes of each entity. Finally, we created and manipulated tables using SQL statements by including a few DDL and DML skills in Oracle Apex. In conclusion, our objective for this phase was to establish effective database management for HASTA Car Rental.

8.0 Demonstration link

<https://youtu.be/La7tTlzDWLw?si=N3L2k7zAIt6UpiHa>