



Car Renting System



Assigned TA Name: Shamia Magdy

Team ID: 130

Team Members:

Name	Seat Number	Level	Department
عبدالرحمن عصام حسن حسن	2023170318	2	No Department
حسن علي حسن عبدالجيد محمد	2023170195	2	No Department
احمد هشام حافظ صديق	20241701100	2	No Department
سراج الدين عاطف شبل	20241700370	2	No Department
احمد صلاح محمد رزق	2023170039	2	No Department
احمد ابوسريع ابراهيم سويلم	20241700014	2	No Department
مهند محمد يحيى محمود	2023170647	2	No Department
يوسف عصمت صالح هوارى	20241701168	2	No Department

```

CREATE TABLE Customer (
    CustomerID INT PRIMARY KEY,
    Name VARCHAR2(100),
    Phone VARCHAR2(20),
    Email VARCHAR2(100),
    Address VARCHAR2(200)
);

CREATE TABLE Car (
    CarID INT PRIMARY KEY,
    Model VARCHAR2(100),
    Year INT,
    Status VARCHAR2(20),
    DailyPrice NUMBER(10,2)
);

CREATE TABLE Employee (
    EmployeeID INT PRIMARY KEY,
    Name VARCHAR2(100),
    Phone VARCHAR2(20),
    Position VARCHAR2(50)
);

CREATE TABLE Rental (
    RentalID INT PRIMARY KEY,
    CustomerID INT,
    CarID INT,
    EmployeeID INT,
    StartDate DATE,
    EndDate DATE,
    TotalCost NUMBER(10,2),
    FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),
    FOREIGN KEY (CarID) REFERENCES Car(CarID),
    FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID)
);

CREATE TABLE Payment (
    PaymentID INT PRIMARY KEY,
    RentalID INT,
    PaymentDate DATE,
    Amount NUMBER(10,2),
    Method VARCHAR2(50),
    FOREIGN KEY (RentalID) REFERENCES Rental(RentalID)
);

-- INSERT

-- CUSTOMER
INSERT INTO Customer (CustomerID, Name, Phone, Email, Address)
VALUES (1, 'Ahmed Salah', '01012345678', 'ahmed.salah@gmail.com', 'Cairo, Egypt');

INSERT INTO Customer (CustomerID, Name, Phone, Email, Address)
VALUES (2, 'Sara Mohamed', '01087654321', 'sara.mohamed@gmail.com', 'Giza, Egypt');

INSERT INTO Customer (CustomerID, Name, Phone, Email, Address)
VALUES (3, 'John Smith', '01555554321', 'john.smith@yahoo.com', 'Hurghada, Egypt');

-- CAR
INSERT INTO Car (CarID, Model, Year, Status, DailyPrice)
VALUES (1, 'Toyota Corolla', 2024, 'Available', 450.00);

INSERT INTO Car (CarID, Model, Year, Status, DailyPrice)
VALUES (2, 'Hyundai Elantra', 2021, 'Rented', 500.00);

```

```

INSERT INTO Car (CarID, Model, Year, Status, DailyPrice)
VALUES (3, 'BMW X3', 2019, 'Available', 1200.00);

-- EMPLOYEE
INSERT INTO Employee (EmployeeID, Name, Phone, Position)
VALUES (1, 'Omar Adel', '01123456789', 'Manager');

INSERT INTO Employee (EmployeeID, Name, Phone, Position)
VALUES (2, 'Mona Sameh', '01223456789', 'Sales Agent');

INSERT INTO Employee (EmployeeID, Name, Phone, Position)
VALUES (3, 'Karim Tarek', '01010999994', 'Support Agent');

-- RENTAL

INSERT INTO Rental (RentalID, CustomerID, CarID, EmployeeID, StartDate, EndDate, TotalCost)
VALUES (1, 1, 2, 2, '05-DEC-25', '08-DEC-25', 1500.00);

INSERT INTO Rental (RentalID, CustomerID, CarID, EmployeeID, StartDate, EndDate, TotalCost)
VALUES (2, 2, 1, 1, '10-NOV-25', '12-NOV-25', 900.00);

INSERT INTO Rental (RentalID, CustomerID, CarID, EmployeeID, StartDate, EndDate, TotalCost)
VALUES (3, 3, 3, 3, '01-OCT-25', '05-OCT-25', 4800.00);

-- PAYMENT
INSERT INTO Payment (PaymentID, RentalID, PaymentDate, Amount, Method)
VALUES (1, 1, '08-DEC-25', 1500.00, 'Credit Card');

INSERT INTO Payment (PaymentID, RentalID, PaymentDate, Amount, Method)
VALUES (2, 2, '12-NOV-25', 900.00, 'Cash');

INSERT INTO Payment (PaymentID, RentalID, PaymentDate, Amount, Method)
VALUES (3, 3, '05-OCT-25', 4800.00, 'Bank Transfer');

COMMIT;

-- code used for forms

-- 1st button
DECLARE
    v_count NUMBER;
BEGIN
    SELECT COUNT(*)
    INTO v_count
    FROM CUSTOMER
    WHERE CUSTOMERID = :CUSTOMER.CUSTOMERID;

    IF v_count = 0 THEN
        COMMIT_FORM;
    END IF;

    GO_ITEM('RENTAL.CARID');
END;

-- sequences
create sequence rent_seq
start with 4
increment by 1;

-- PL/ SQL of forms

```

```

-- 2nd button

DECLARE
    price NUMBER;
BEGIN
    SELECT DAILYPRICE
    INTO price
    FROM CAR
    WHERE CARID = :RENTAL.CARID;

    :RENTAL.COST := price * :RENTAL.DAYS;
    :GLOBAL.TCOST := :RENTAL.COST;

    GO_ITEM('PAYMENT.PAYMENT_METHOD');
END;

-- 3rd button
DECLARE
    v_rental_id NUMBER;
    v_customer_id NUMBER;
    b NUMBER;
BEGIN
    v_customer_id := :CUSTOMER.CUSTOMERID;

    GO_BLOCK('CUSTOMER');

    IF :SYSTEM.RECORD_STATUS = 'INSERT' THEN
        CLEAR_RECORD;
    END IF;

    SELECT rent_seq.NEXTVAL
    INTO v_rental_id
    FROM dual;

    INSERT INTO RENTAL
    (RENTALID, CUSTOMERID, CARID, EMPLOYEEID, STARTDATE, ENDDATE, TOTALCOST)
    VALUES
    (v_rental_id,
     v_customer_id,
     :RENTAL.CARID,
     2,
     SYSDATE,
     SYSDATE + :RENTAL.DAYS,
     :GLOBAL.TCOST);

    INSERT INTO PAYMENT
    (PAYMENTID, RENTALID, PAYMENTDATE, AMOUNT, METHOD)
    VALUES
    (v_rental_id,
     v_rental_id,
     SYSDATE,
     :GLOBAL.TCOST,
     :PAYMENT.PAYMENT_METHOD);

    COMMIT;

    b := show_alert('ALERT106');

    CLEAR_FORM(NO_VALIDATE);
    GO_ITEM('CUSTOMER.CUSTOMERID');
END;

```


ActionEditQueryBlockRecordFieldHelpWindow

ORACLE

WINDOW1

Customer

Customerid

Name

Phone

Email

Address

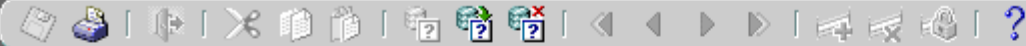
Choose a Car

Enter a query; press Ctrl+F11 to execute, F4 to cancel.

Record: 1/1

Enter-Qu...

List of Valu...



WINDOW1

Customer

Customerid

Name

Phone

Email

Address

Customer Info

Find %

Customerid	Name	Phone	Email	Address
1	Ahmed Salah	01012345678	ahmed.salah...	Cairo, Egypt
2	Sara Mohamed	01087654321	sara.moham...	Giza, Egypt
3	John Smith	01555554321	john.smith@...	Hurghada, E...

Find

OK

Cancel

Choose a Car

Choices in list: 3

Record: 1/1

Enter-Qu...

List of Valu...



WINDOW1

Car

Carid

☒ Availability

Days

Rental Days

Pay

FRM-40202: Field must be entered.

Record: 1/1

... List of Valu...



WINDOW1

Car

Carid

Car Info

Find %

Carid	Model	Year	Status
1	Toyota Corolla	2024	Available
2	Hyundai Elantra	2021	Rented
3	BMW X3	2019	Available

Days

F

Find

OK

Cancel

Pay



WINDOW1

Car

Carid 2

Availability

Days

Rental Days

- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Pay



WINDOW1

Cost

4500

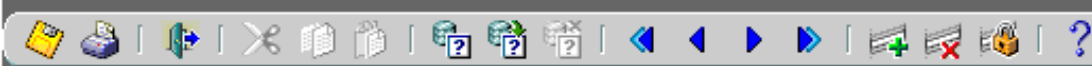
Payment Method

☒ Bank Transfer

☐ Cash

☐ Credit Card

Rent



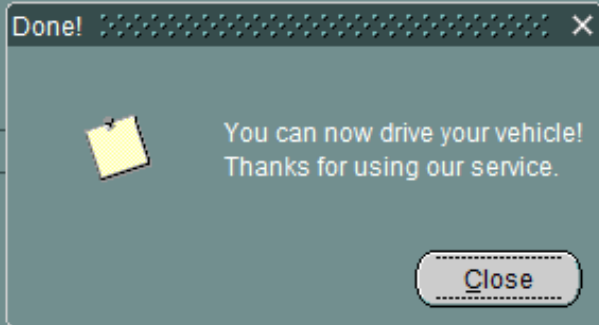
WINDOW1

Cost

4500

Payment Method

- ☐ Bank Transfer
- ☒ Cash
- ☐ Credit Card



Rent

ORCLconnHR

CUSTOMER

0.0038254 seconds

select * from rental;

Results Script Output Explain Autotrace DBMS Output OWA Output

Results:

	RENTALID	CUSTOMERID	CARID	EMPLOYEEID	STARTDATE	ENDDATE	TOTALCOST
1	7	2	2	2	14-DEC-25	20-DEC-25	3000
2	8	3	2	2	14-DEC-25	23-DEC-25	4500
3	9	3	2	2	14-DEC-25	23-DEC-25	4500
4	1	1	2	2	05-DEC-25	08-DEC-25	1500
5	2	2	1	1	10-NOV-25	12-NOV-25	900
6	3	3	2	3	01-OCT-25	05-OCT-25	4800

```
select * from payment;
```

Results:

	<small>R2</small> PAYMENTID	<small>R2</small> RENTALID	<small>R2</small> PAYMENTDATE	<small>R2</small> AMOUNT	<small>R2</small> METHOD
1	7	7	14-DEC-25	3000	Bank Transfer
2	8	8	14-DEC-25	4500	Credit Card
3	9	9	14-DEC-25	4500	Cash
4	1	1	08-DEC-25	1500	Credit Card
5	2	2	12-NOV-25	900	Cash
6	3	3	05-OCT-25	4800	Bank Transfer



MODULE1: CANVA_CUSTOMER

Canvas: CANVA_CUSTOMER Block: <Null>

Segoe UI

Customerid	CUSTOMERID
Name	NAME
Phone	PHONE
Email	EMAIL
Address	ADDRESS

Choose a Car

PL/SQL Editor

Name: WHEN-BUTTON-PRESSED

Type: Trigger Object: CUSTOMER PUSH_BUTTON6

```
1 DECLARE
2     v_count NUMBER;
3 BEGIN
4     SELECT COUNT(*)
5     INTO v_count
6     FROM Customer
7     WHERE CustomerID = :CUSTOMER.CUSTOMERID;
8
9     IF v_count != 0 THEN
10        COMMIT_FORM;
11    END IF;
12 END;
13
14 GO_ITEM('RENTAL.STARTDATE');
```

Not Modified Successfully Compiled

MODULE1: CANVA_CUSTOMER

Canvas: CANVA_CUSTOMER Block: <Null>

Segue UI

Customer

Customerid: CUSTOMERID

Name: NAME

Phone: PHONE

Email: EMAIL

Address: ADDRESS

LOV Wizard

Record Group

Query

Columns

Column Display

LOV Display

Advanced

Record Groups can be based on SQL queries. Do you want to enter or modify the query that your LOV's Record Group uses?

If so, you may use the Query Builder by clicking Build SQL Query. Or, you may enter your query directly into the SQL Query Statement field below.

Build SQL Query...

Import SQL Query...

SQL Query Statement

SELECT ALL CUSTOMER.CUSTOMERID,
CUSTOMER.NAME, CUSTOMER.PHONE, CUSTOMER.EMAIL,
CUSTOMER.ADDRESS
FROM CUSTOMER

Connect...

Check Syntax...

Cancel

Help

Apply

< Back

Next >

Finish

PL/SQL Editor

Name: WHEN-BUTTON-PRESSED

Type: Trigger Object: CUSTOMER PUSH_BUTTON6

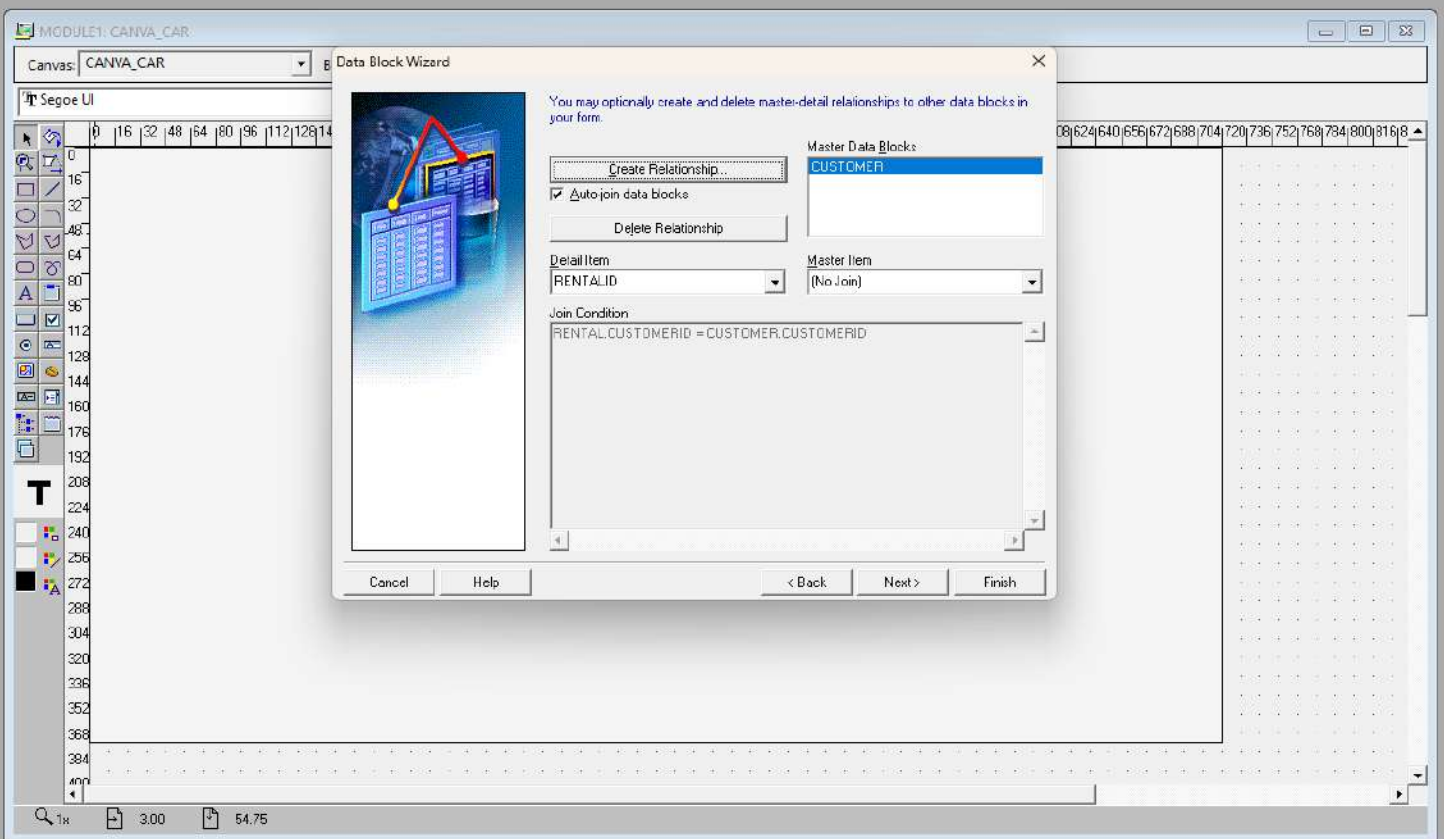
```
= :CUSTOMER.CUSTOMERID;  
  
THEN  
  
UPDATE');
```

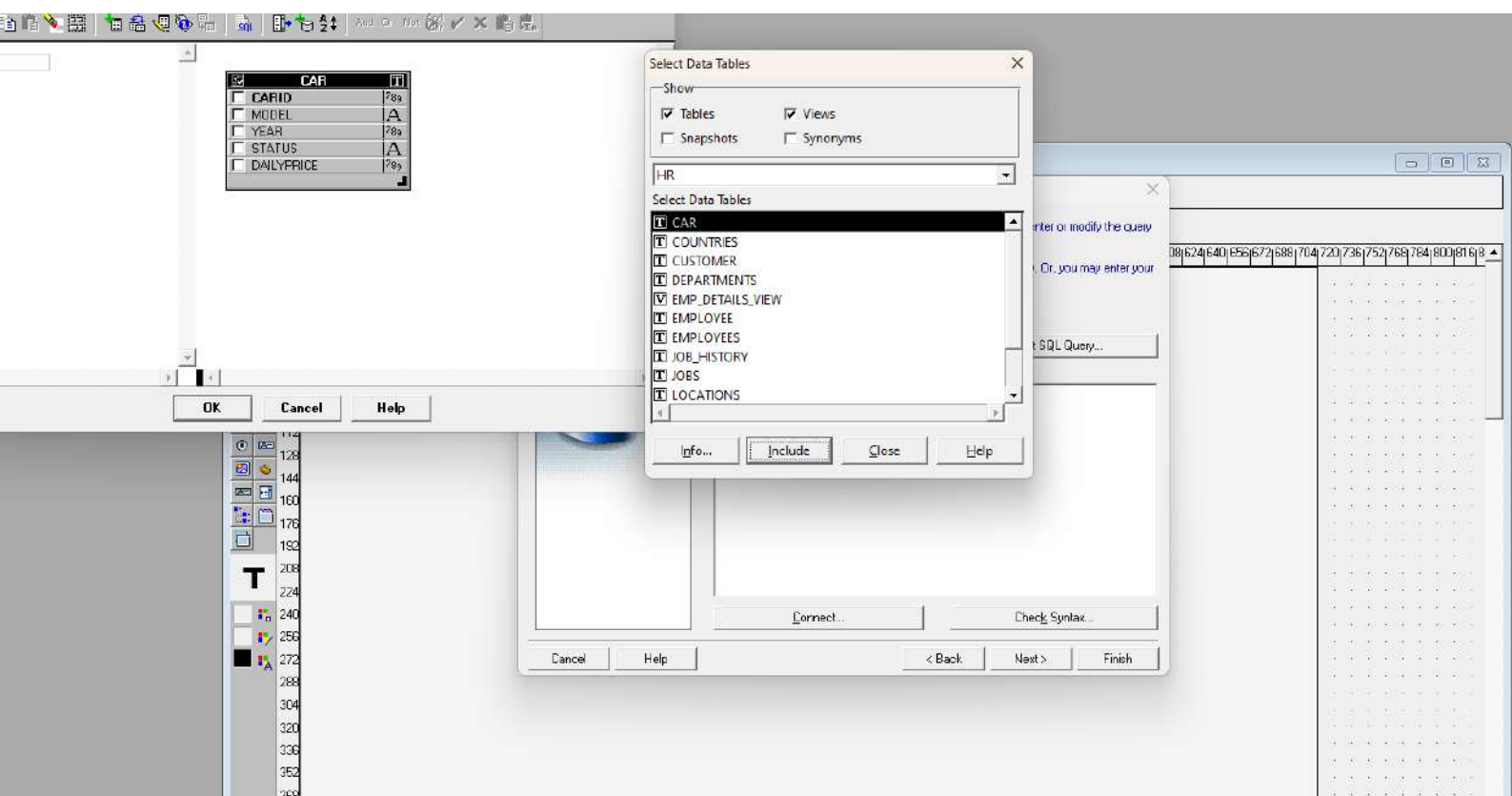
Successfully Compiled

1x

5.25

53.25





MODULE1: CANVA_CAR

Canvas: CANVA_CARBlock: <Null>

Segoe UI

0163248648096112128144160176192208224240256272288304320336352368384400

Car

CaridCARID

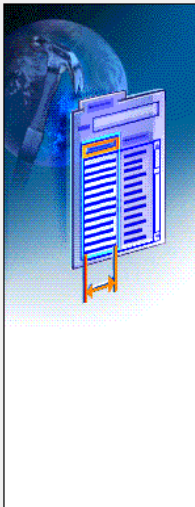
Availability

Days

Rental DaysLIST64

LOV Wizard

Record GroupQueryColumnsColumn DisplayLOV DisplayAdvanced



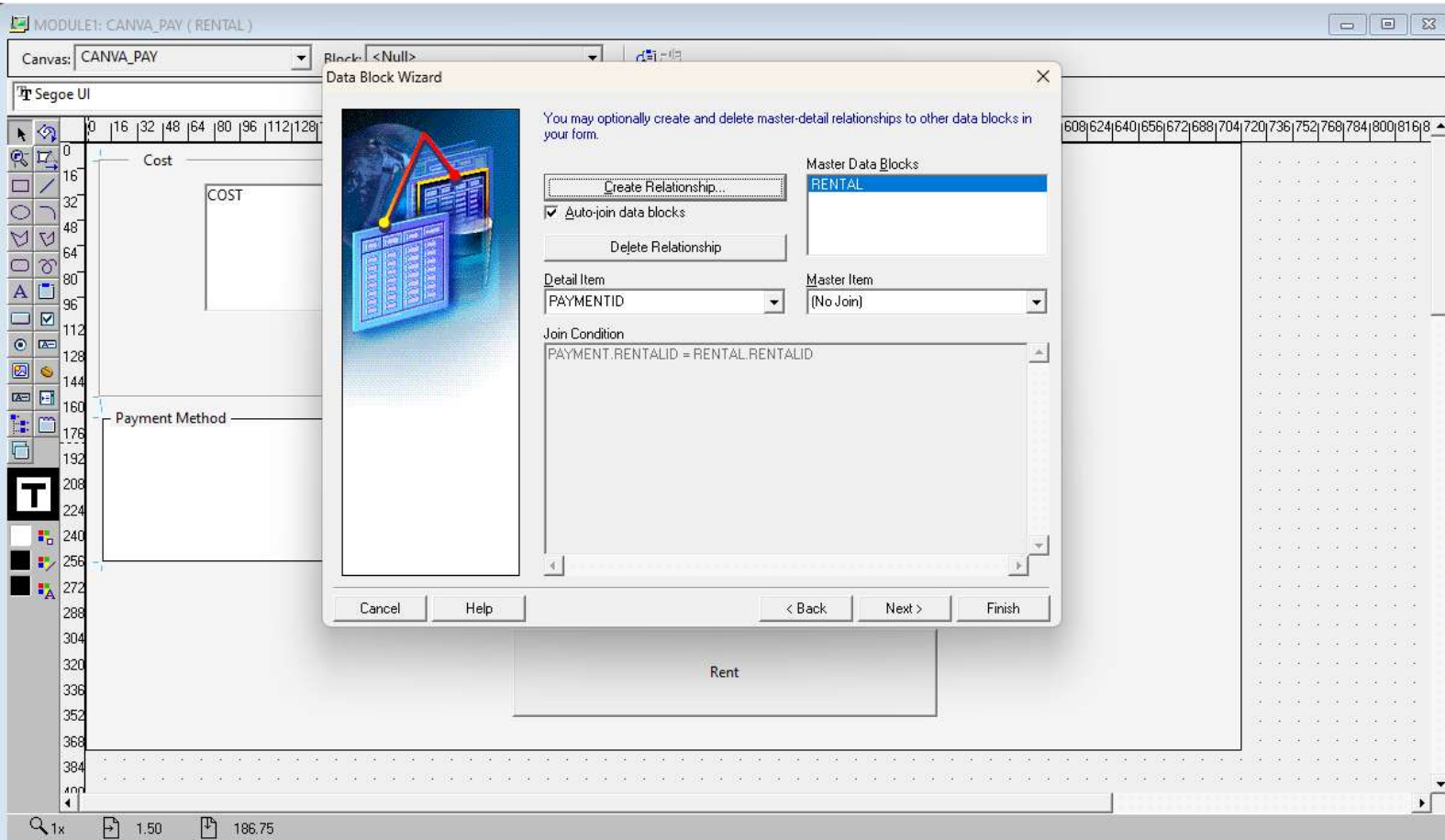
If you wish to specify the LOV column properties, you may enter a title, width and return value for each LOV column. The units for the column width is Points.

Column	Title	Width	Return value
CARID	Carid	40	RENTAL.CARID
MODEL	Model	90	
YEAR	Year	60	
STATUS	Status	60	RENTAL.CHECK_BOX82
DAILYPRICE	Dailyprice	90	

☐ Automatically size columnsLook up return item...

CancelHelp

Apply< BackNext >Finish



MODULE1: CANVA_PAY (RENTAL)

Canvas: CANVA_PAY Block: <Null>

Segoe UI 9 B I U

0

16

32

48

64

80

96

112

128

144

160

176

192

208

224

240

256

272

288

304

320

336

352

368

384

400

416

432

448

0

16

32

48

64

80

96

112

128

144

160

176

192

208

224

240

256

272

288

304

320

336

352

368

384

400

416

432

448

Cost

COST

Payment Method

☐ Bank Transfer

☐ Cash

☐ Credit Card

Rent

1x 496.50 213.75

PL/SQL Editor

Name: WHEN-BUTTON-PRESSED

Type: Trigger Object: CUSTOMER RENT_BUTTON

```
1 Declare
2 b number;
3 begin
4   b := show_alert('ALERT106');
5 end;
```

Not Modified Successfully Compiled

Property Palette



Find:



Alert: ALERT106

General	
Name	ALERT106
Subclass Information	
Comments	
Functional	
Title	Done!
Message	You can now drive your vehicle!Thar
Alert Style	Note
Button 1 Label	Close
Button 2 Label	
Button 3 Label	
Default Alert Button	Button 1
Visual Attributes	
Visual Attribute Group	DEFAULT
Color	
Foreground Color	<Unspecified>
Background Color	<Unspecified>
Fill Pattern	<Unspecified>
Font	
Font Name	<Unspecified>
Font Size	<Unspecified>

General

MODULE1: CANVA_CAR (RENTAL)

Canvas: CANVA_CAR Block: <Null>

Segoe UI 9 **B** *I* U 🔍 📏 📐 📊 📋 📌 📍

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144

160

176

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208

224

240

256

272

288

304

320

336

352

368

384

400

416

432

448

Car

Carid:

☒ Availability

Days

Rental Days:

Pay

585.00

213.00

PL/SQL Editor

Name: WHEN-BUTTON-PRESSED

Type: Trigger Object: RENTAL PUSH_BUTTON78

```
1 DECLARE
2     price NUMBER;
3 BEGIN
4     SELECT DAILYPRICE
5     INTO price
6     FROM CAR
7     WHERE CARID = :RENTAL.CARID;
8
9     :RENTAL.TOTALCOST := price * :RENTAL.DAYS;
10 END;
11
12 GO_ITEM('PAYMENT.PAYMENT_METHOD');
```

Modified Not Compiled