

Excel 2010 Tutorial 8 Solution Document

	A	B	C	D	E	F	G	H	
1	Eugene Discount Car Rental								
2									
3	Author:	Ellen	Documentation sheet displays the student's name and the date						
4	Date:	7/1/2013							
5									
6	Purpose:	To prepare a customer bill for a car rental							
7									
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10	Defined Names								
11	ChargePerDay	=Customer!\$H\$9							
12	ChargePerMile	=Customer!\$H\$10							
13	Customer	=Customer!\$B\$4							
14	DaysRented	=Customer!\$B\$6							
15	MilesDriven	=Customer!\$B\$7							
16	RentalRates	=Customer!\$A\$12:\$C\$16							
17	SalesTaxRate	=Customer!\$B\$19							
18	TypeCar	=Customer!\$B\$5							
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Defined names in the workbook are listed on the Documentation sheet

Documentation Customer

The screenshot shows an Excel spreadsheet with the following sections and callouts:

- Rental Inputs:** Customer Name (Ed Elders), Type of Car (Full), Number of Days Rented (3), Number of Miles Driven (2000). Callout: "Cells B5, B6, and B7 include validation rules shown in Figure 8-36".
- Rental Rates:** Table with columns: Type, Charge/Day, Charge/Mile. Rows: Compact (\$39.00, \$0.23), Intermediate (\$45.00, \$0.26), Full (\$52.00, \$0.29), Luxury (\$60.00, \$0.32), Minivan (\$58.00, \$0.37).
- Rental Constants:** State Tax Rate (4.5%).
- Eugene Discount Car Rental Customer Bill:**
 - Customer Name: Ed Elders, Type of Car: Full
 - Days Rented: 3, Charge per Day: \$ 52.00
 - Miles Driven: 2,000, Charge per Mile: \$ 0.29
 - Rental: \$ 736.00
 - State Tax: \$ 33.12
 - Amount Due: \$ 769.12
- Callouts:**
 - "Macro named PDFBill with the shortcut key Ctri+p has been created and assigned to the Create PDF button"
 - "Cells H9 uses the VLOOKUP function to calculate the charge per day, and Cell H10 uses the VLOOKUP function to calculate the charge per mile"
 - "Customer Bill includes appropriate formulas to calculate the bill, including IFERROR functions in Cells H9, H10, F12, F13, and F14 to test for error values"
 - "Customer worksheet contains cells with the names shown in Question 3 of the Review Assignments and formulas from Question 5"
 - "Customer worksheet is protected"

Formulas:

The screenshot shows the formulas used in the 'Eugene Discount Car Rental' worksheet:

- Customer Name:** =Customer
- Type of Car:** =TypeCar
- Days Rented:** =DaysRented
- Miles Driven:** =MilesDriven
- Charge per Day:** =IFERROR(VLOOKUP(TypeCar,RentalRates,2,FALSE),"")
- Charge per Mile:** =IFERROR(VLOOKUP(TypeCar,RentalRates,3,FALSE),"")
- Rental:** =IFERROR((DaysRented*ChargePerDay)+(MilesDriven*ChargePerMile),"")
- State Tax:** =IFERROR(SalesTaxRate*F12,"")
- Amount Due:** =IFERROR(F12+F13,"")

Here's a link to the VBA code for the [PDFBill macro](#). Please note that the file date and the location and file name will be different in your code. Also, your code may not be exactly like the code solution. That's OK. I provide it just in case you are having trouble getting your macro to work properly.