Criteria	Very effective	Effective	Ineffective
Final 3NF column shows 3	These three entities appear in the	Some entities were listed, some	These three entities were not
entities:	3NF column. 10 points each	were not. 10 points each for	listed
Invoice	Names can vary but must identify	those correctly listed.	
InvoiceDetail	these three entities.		0
Customer			
	30	10 - 20	
It is OK if they list MORE entities,			
such as Materials and/or Services			
Primary Keys:			
Final 3NF column has these	The primary keys for these three	Some of the keys are correct,	Keys are wrong, missing, or
Primary Keys	entities are correctly defined.	some are not. 6 points each.	incorrect.
	6 points each		
Invoice – Invoice Number or ID		CustomerName is NOT a valid	
InvoiceDetail – concatenated		key.	0
Invoice Number + Invoice Detail			
Line Number	18	6 - 12	
<b>Customer</b> - Customer Number or			
ID			
Attributes:	All of the 28 non-key attributes are	Some attributes are correctly	
Final 3NF shows attributes	modeled within the correct entity	listed. Some are missing or listed	
correctly assigned to entities as	as shown on the answer set. The	within the wrong entity. 1/2	
shown in the answer set (next	order of the attributes and names	point each for those correctly	
page)	can vary. 1/2 point each.	listed.	N/A
			IN/A
The names of the attributes can	14		
vary. Ignore spelling and	14	0 - 13	
abbreviations variations.			
Format:	4 columns		Student did not follow
Student followed instructions and	Unnormalized, 1NF, 2NF, 3NF		instructions. Not all 4 columns
formatted their deliverable as	Entity names are highlighted in		present. Entities, Attributes and
requested (as reflected in the	yellow. Keys are highlighted in		keys are not properly identified.
answer set on the next page.	some other color.	N/A	0
	8		
TOTAL (out of 70):			

repeating groups

Unnormalized	First Normal Form	Second Normal Form	Third Normal Form
Customer	Customer	Customer	Customer
CustomerID	CustomerID	CustomerID	CustomerID
CustomerName	CustomerName	CustomerName	CustomerName
CustomerAddress1	CustomerAddress1	CustomerAddress1	CustomerAddress1
CustomerAddress2	CustomerAddress2	CustomerAddress2	CustomerAddress2
CustomerCity	CustomerCity	CustomerCity	CustomerCity
CustomerState	CustomerState	CustomerState	CustomerState
CustomerZip	CustomerZip	CustomerZip	CustomerZip
CustomerPhone1	CustomerPhone1	CustomerPhone1	CustomerPhone1
CustomerPhone2	CustomerPhone2	CustomerPhone2	CustomerPhone2
ReferredBy	ReferredBy	ReferredBy	ReferredBy
CustomerSince	CustomerSince	CustomerSince	CustomerSince
CustomerTypeMowing	CustomerTypeMowing	CustomerTypeMowing	CustomerTypeMowing
CustomerTypeLandscaping	CustomerTypeLandscaping	CustomerTypeLandscaping	CustomerTypeLandscaping
CustomerTypeOther	CustomerTypeOther	CustomerTypeOther	CustomerPriorBalance
Notes	Notes	Notes	CustomerTotalNewCharges
Invoice	Invoice	Invoice	CustomerTaxes
Invoice Number	Invoice Number	Invoice Number	CustomerTotalCredits
Invoice Date	Invoice Date	Invoice Date	Customer Total Amount Due
Customer Name	Customer Name	Customer Name	CustomerTypeOther
CustomerAddress	CustomerAddress	CustomerAddress	Notes
CustomerCity	CustomerCity	CustomerCity	Invoice
CustomerState	CustomerState	CustomerState	Invoice Number
CustomerZip	CustomerZip	CustomerZip	Invoice Date
InvoiceTotalAmountDue	InvoiceTotalAmountDue	InvoiceTotalAmountDue	CustomerID
InvoiceAmountRemitted	InvoiceAmountRemitted	InvoiceAmountRemitted	InvoiceTotalAmountDue
InvoiceDetailDate	TotalCharges	TotalCharges	InvoiceAmountRemitted
+ ServicesRendered_MaterialsDelivered	TotalCredits	TotalCredits	TotalCharges
+ Charges	CustomerPriorBalance	CustomerPriorBalance	TotalCredits
Credits	CustomerTotalNewCharges	CustomerTotalNewCharges	InvoiceDetail
TotalCharges	CustomerTaxes	CustomerTaxes	Invoice Number
TotalCredits	CustomerTotalCredits	CustomerTotalCredits	InvoiceDetailLineNumber
Customer Prior Balance	Customer Total Amount Due	CustomerTotalAmountDue	InvoiceDetailDate
CustomerTotalNewCharges	InvoiceDetail	InvoiceDetail	Services Rendered_Materials Delivered
CustomerTaxes	Invoice Number	Invoice Number	Charges
CustomerTotalCredits	InvoiceDetailLineNumber	InvoiceDetailLineNumber	Credits
Customer Total Amount Due	InvoiceDetailDate	InvoiceDetailDate	
	Services Rendered_Materials Delivered	ServicesRendered_MaterialsDelivered	
	ServicesRendered_MaterialsDelivered Charges	ServicesRendered_MaterialsDelivered Charges	