

By Derek Peacock

Table Design

	ricia nume	Data Type	Description
B	WineID	AutoNumber	A unique number used to identify a particular wine
	WineName	Text	The name of the wine used on the wine label
	Summary	Text	A summary of the main characteristics of each wine
	Description	Memo	A full description with tasting notes by wine experts
	Vineyard	Text	The name of the Vineyard producing the wine
	Colour	Text	The colour of the wine, red, white or rose
	IsSparkling	Yes/No	Whether the wine is sparkling or not
	Vintage	Number	The year the graes were harvested
	ImageUrl	Text	The location of an image file
	AlcoholContent	Number	The percentage of alcohol
	Region	Text	The main region of the country where the grapes were grown e.g. Bordeaux
	Area	Text	The area in the region where the grapes were grown e.g. Margaux
	BottlePrice	Currency	The price to buy one 75cl bottle of the wine
	Maturity	Number	How ready the wine is to drink, 1=ready, 2=ready but will imrpove, 3 = not ready, lay down
	BBR_Rating	Number	How good the wine is rated out of 100 by the company
	ParkersRating	Number	How good the wine is rated out of 100 by Robert Parker

Data Validation

Vintage

Field Size	Integer			
Format				
Decimal Places	Auto			
Input Mask				
Caption				
Default Value				
Validation Rule	>=1900 And <=2013			
Validation Text	Please enter the year the wine was harvested as a four digit figure			
Required	Yes			
Indexed	No			
Smart Tags				
Text Align	General			

Alcohol Content

Field Size	Single
Format	
Decimal Places	1
Input Mask	
Caption	
Default Value	
Validation Rule	>=7 And <=16
Validation Text	Please enter the alcohol content as a percentage e.g. 12.5
Required	No
Indexed	No
Smart Tags	
Text Align	General

Colour (Lookup Wizard..)

General Lookup	
Display Control	Combo Box
Row Source Type	Value List
Row Source	"Red"; "White"; "Rose"
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	Yes
Allow Multiple Values	No
Allow Value List Edits	Yes
List Items Edit Form	
Show Only Row Source V	No

Test Data Plan

Description of Item to Be Tested: WineName

4

<u>WineName</u> is going to store the name of the wine, which is a required field and must be start with at least 3 letters and must be no more than 30 characters long in total. This name is displayed on the wine label.

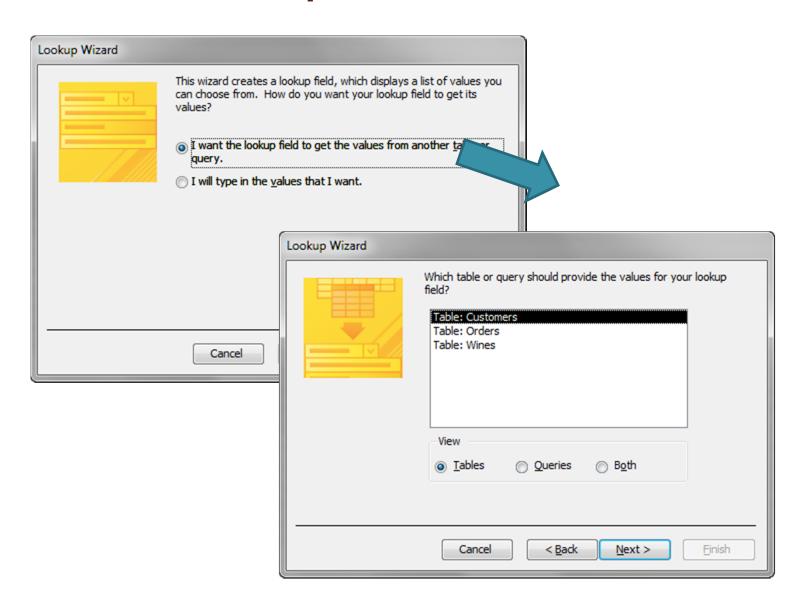
Required Field Y

Test Type	Test Data	Expected Result	Actual Result
Extreme Min	No Chars	Display Error Message	Error Message
Min -1	2 Chars	Display Error Message	No Error Message, pattern added which required at least 3 letters followed by an optional 27 further chars
Min (Boundary)	3 Chars	Accepted	Accepted
Min +1	4 Chars	Accepted	Accepted
Max -1	29 Chars	Accepted	Accepted
Max (Boundary)	30 Chars	Accepted	Accepted
Max +1	31 Chars	Only 30 chars accepted	Only 30 chars accepted
Mid	60 Chars	Only 30 chars accepted	Only 30 chars accepted
Extreme Max	120 chars	Only 30 chars accepted	Only 30 chars accepted
Invalid data type	NA		
Other tests			

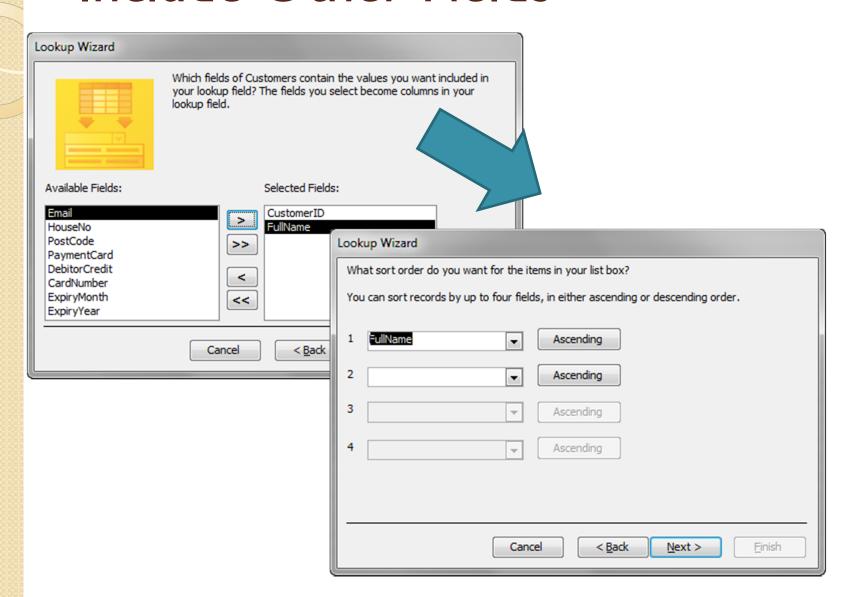
Additional Notes / Instructions:

Although most names will only contain letters it is possible that someone could name a wine "Opus 1" or any other such name that contains digits or symbols

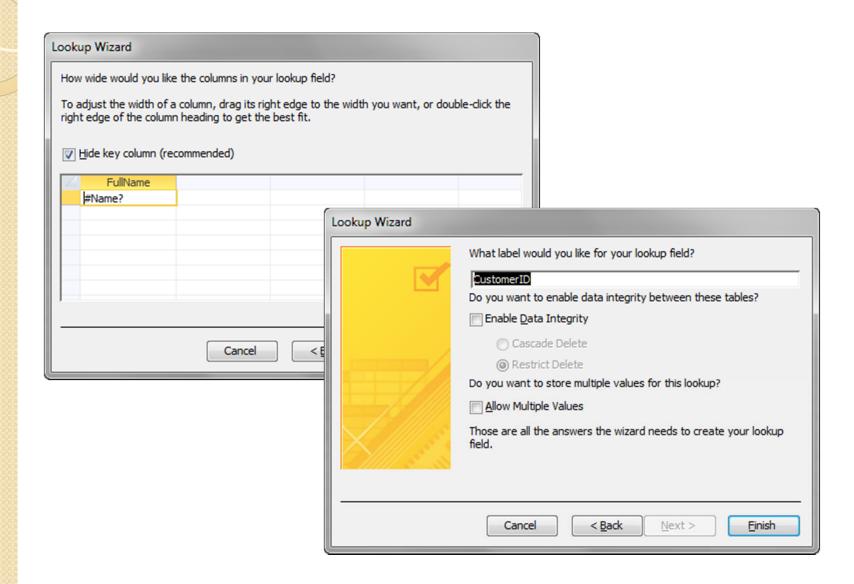
Relationships



Include Other Fields



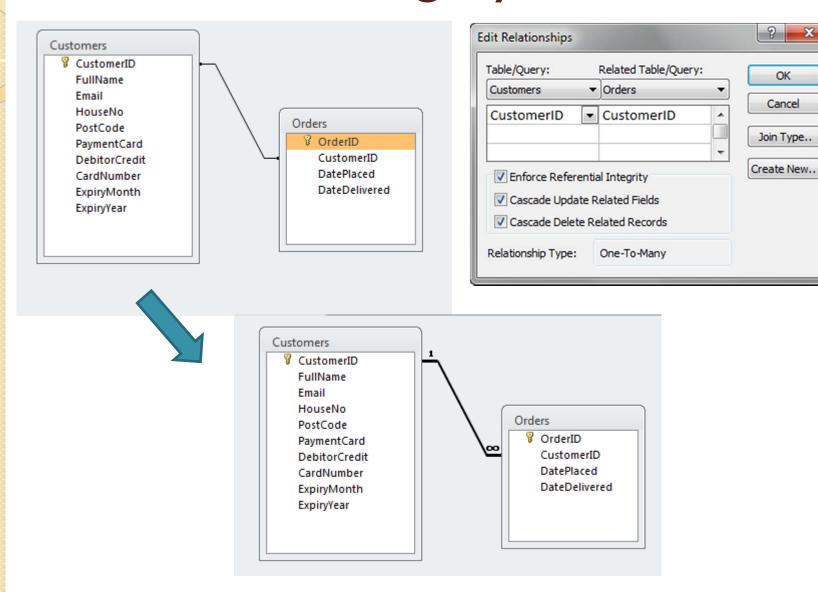
Hide the ID Field



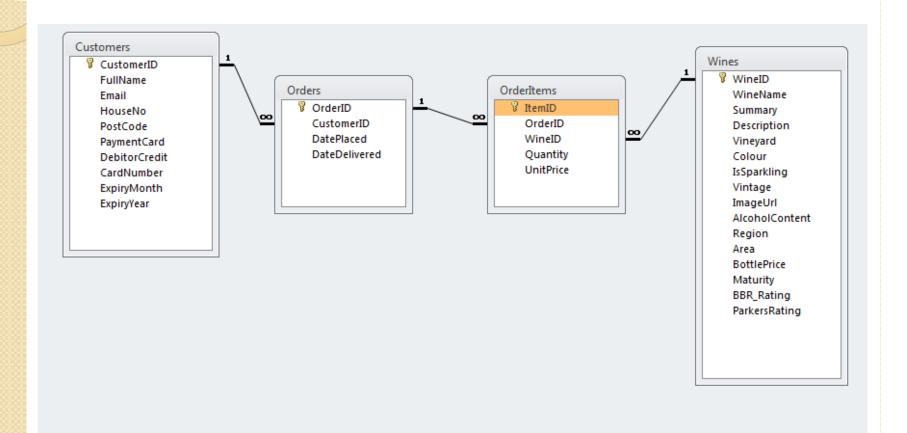
Internal Queries

Display Control	Combo Box
Row Source Type	Table/Query
Row Source	SELECT [Customers].[CustomerID], [Customers].[FullName] FROM Customers ORDER BY [FullName];
Bound Column	1
Column Count	2
Column Heads	No
Column Widths	0cm;2.54cm
List Rows	16
List Width	2.54cm
Limit To List	Yes
Allow Multiple Values	No
Allow Value List Edits	Yes
List Items Edit Form	
Show Only Row Source	V No

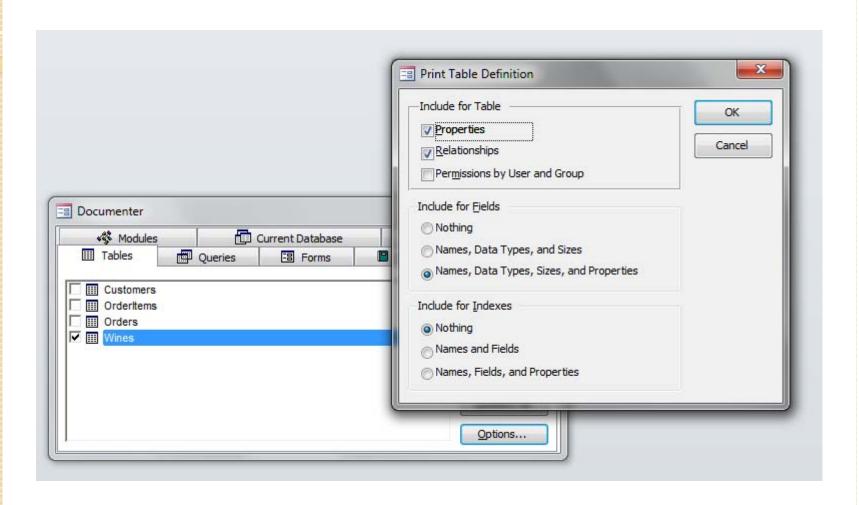
Referential Integrity



Order Items



Database Documentation



Field Documentation

Vintage Integer 2

AggregateType: -1
AllowZeroLength: False
AppendOnly: False

Attributes: Fixed Size
CollatingOrder: General
ColumnHidden: False
ColumnOrder: Default

CurrencyLCID: 0
DataUpdatable: False
DecimalPlaces: 255

ColumnWidth:

Description: The year the grapes were harvested

Default

DisplayControl: Text Box

GUID: {guid {234236F2-C7A3-407F-9CD5-B82A6E1A6C43}}

OrdinalPosition: 7

Required: True ResultType: 0

SourceField: Vintage SourceTable: Wines TextAlign: 0

ValidationRule: >=1900 And <=2013

ValidationText: Please enter the year the wine was harvested as a four digit figure

Relationship Documentation

Relationships

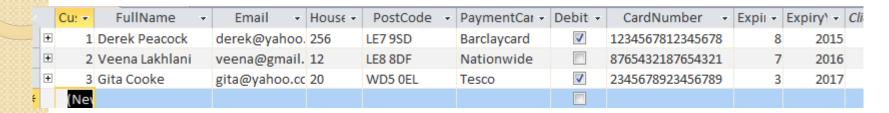
WinesOrderItems

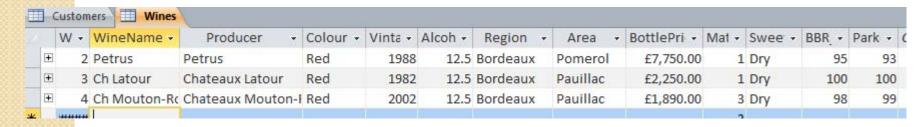
Wines			OrderItems	
WineID	1	œ	WineID	

Attributes: Enforced, Cascade Updates, Cascade Deletes

RelationshipType: One-To-Many

Minimal Test Data





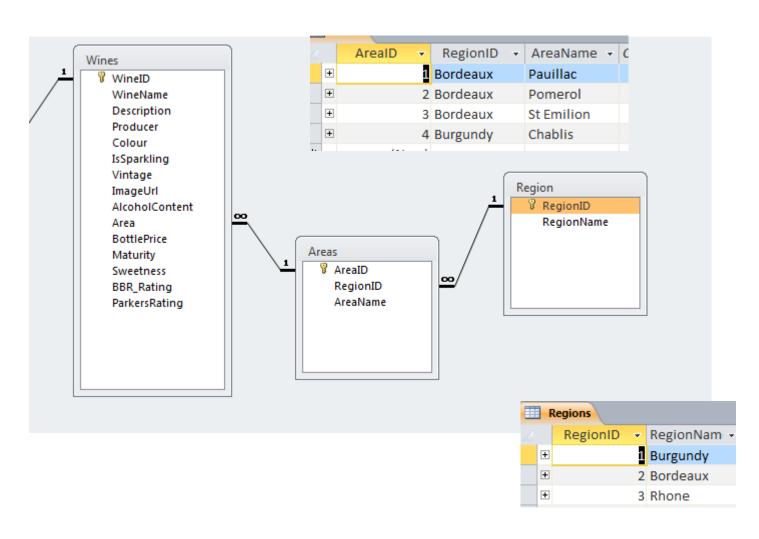
4.		Ord∈ +	CustomerID -	DatePlaced -	DateDeliv∈ ▼ C
	+	1	Derek Peacock	17-Sep-13	
	+	2	Derek Peacock	05-Sep-13	07-Sep-13
	+	3	Veena Lakhlan	06-Sep-13	Ē

Customers Wines Ord OrderItems								
4	Iterr →	Ord∈ ▼	WineID →	Qua 🕶	UnitPrice → C			
	1	1	Ch Latour	1	£2,250.00			
	2	2 1 Petrus		1	£7,750.00			
	3	2	Ch Latour	1	£2,250.00			
	4	3	Ch Mouton-Ro	1	£1,890.00			
*	(New)		-	1				

Notes => Reflections

- Anything essential missing?
- Why limited to French wines?
- Is Region unnecessary duplication?
- Should Customer have more than one address/email/phone no/credit card?
- Therefore should customer be split?
- Should Wines be split into wine and vintage?

Regions & Areas



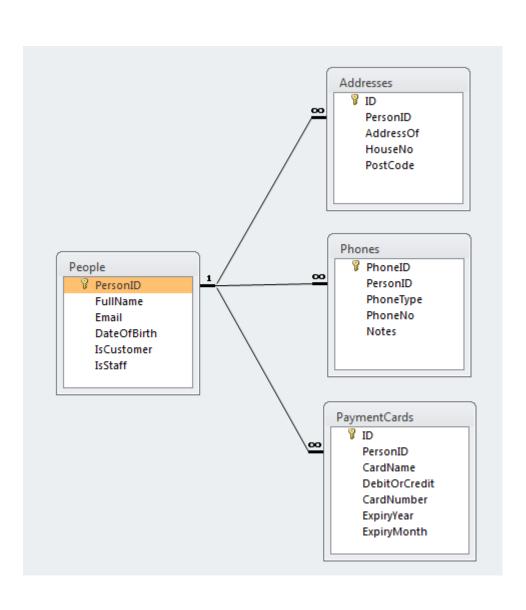
Further Normalisation

I:Many

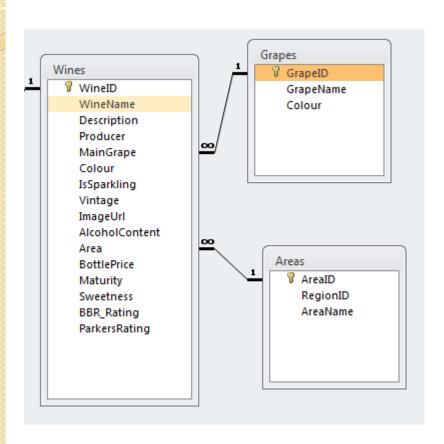
- Wines
 - Producer
 - WineName
 - Colour
 - Sweetness
 - IsSparkling
 - Area

- Vintage
 - WineID
 - VintageYear
 - Alcohol
 - Description
 - Maturity
 - Rating
 - Price

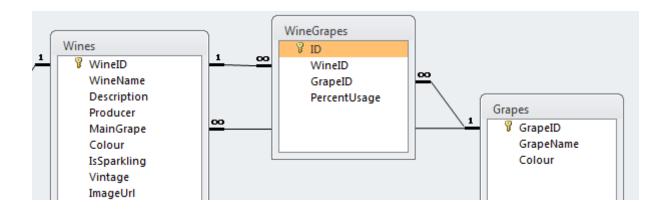
More on Normalisation



What About the Grape?



Alternative Grapes



WineGrapes							
4	ID 🕶	WineID	¥	GrapeID -	Perce - (
	1	Petrus		Merlot	100		
	2 Ch Latour			Cabinet Sauvignon	85		
	3	Ch Latour		Merlot	15		
NI e							