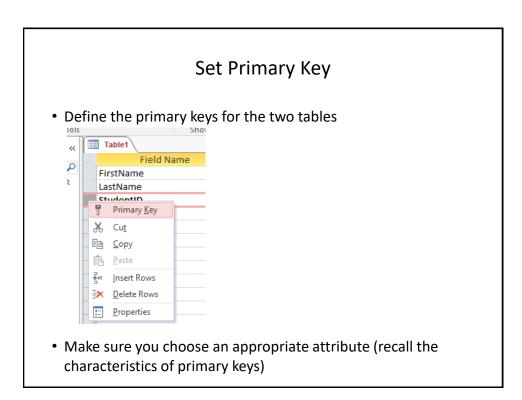
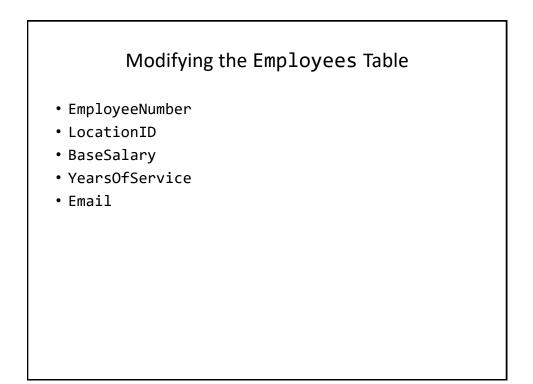


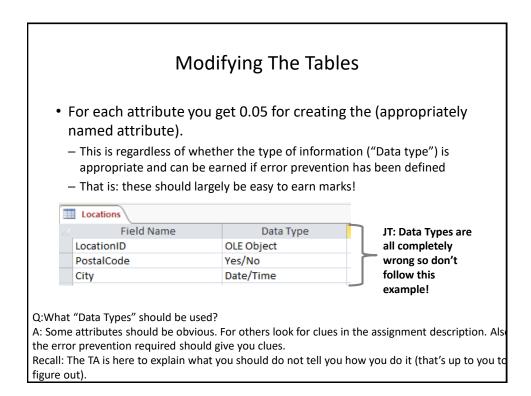
Part I, A2: Creating The Database And Error Prevention

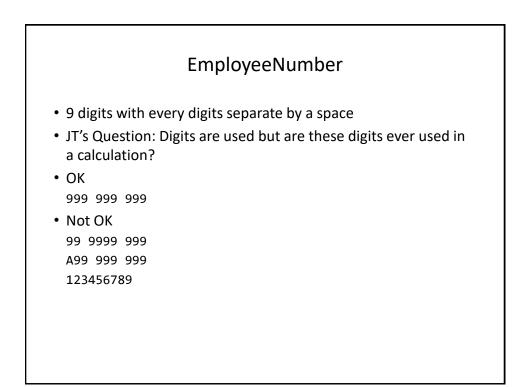
- Creating the two tables
- Creating attributes (appropriate name and type), defining the appropriate error prevention mechanism
 - Modifying the Employees table
 - Modifying the Locations table

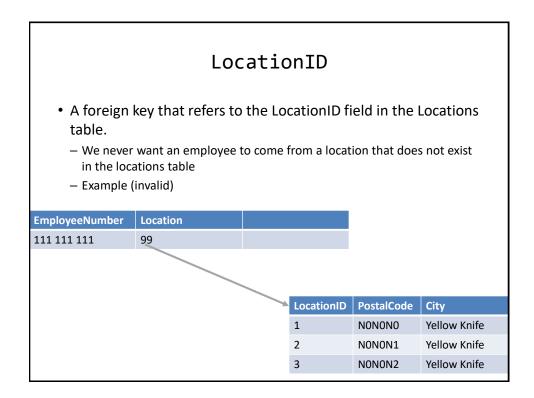
<text>

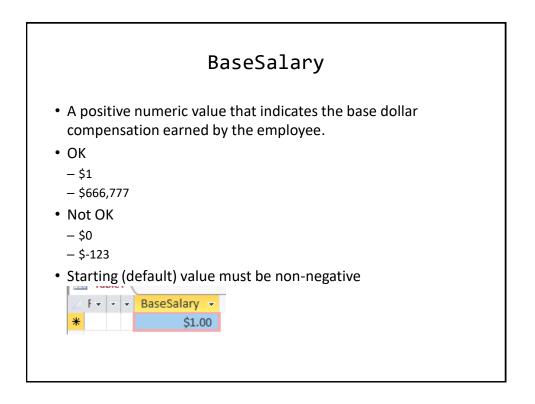






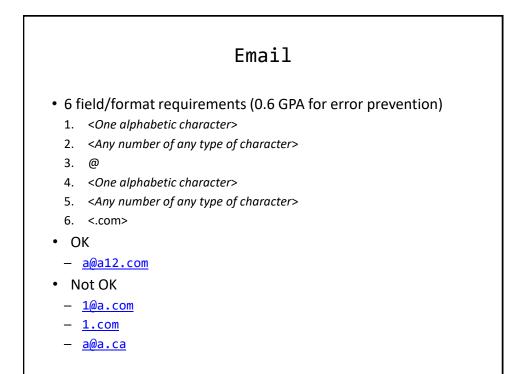






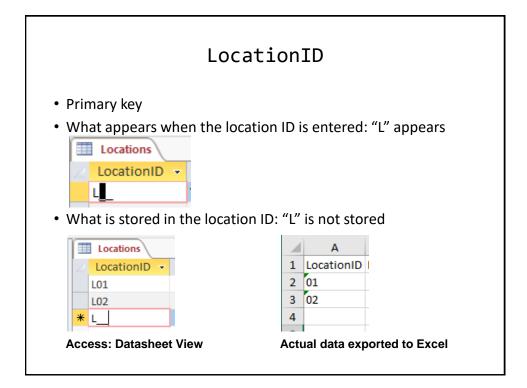


- Non-negative number
- OK
 - 0 years (i.e. a new employee)
 - 1 year
- Not OK
 - -13 years





- LocationID
- PostalCode
- City

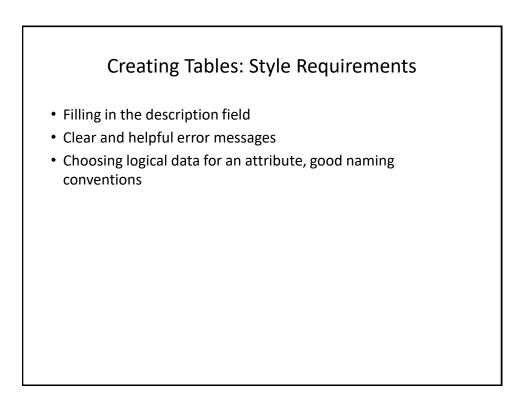




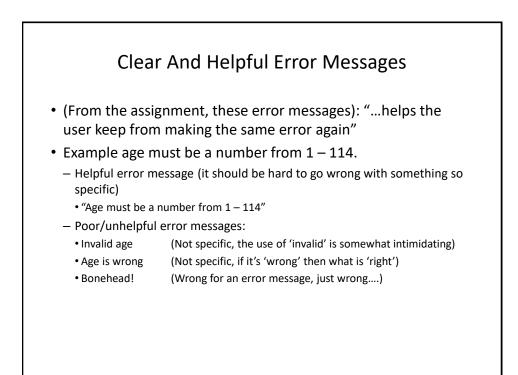
- Six characters in the following format:
 <char><digit><char>-<digit><char><digit>
- OK
 - NØN-ØNØ
- Not OK
 - NØNØNØ
 - NØN ØNØ
 - 0N0-N0N

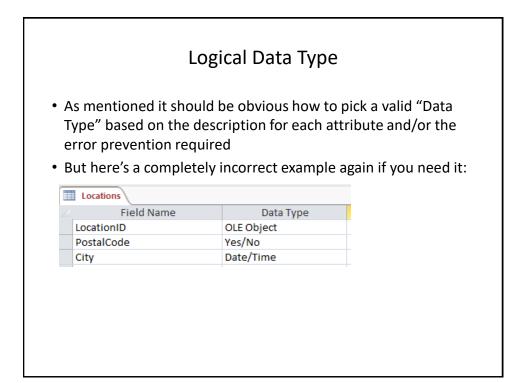
City

• As described in the assignment, just create the attribute with an appropriate name and appropriate "Data Type"



Locations Stort Text LocationID Short Text PostalCode Short Text City Short Text	The Description Field		
LocationID Short Text PostalCode Short Text			×
PostalCode Short Text			Description (Optional)
			<u>_</u>
City Short Text			< 1
	City	Short Text	





Naming Tables And Attributes

Tables

- Unique and descriptive name.
 - Bad: 'X', 'Money', 'ACT' (abbreviation(
 - Better: 'Students', 'Courses' (could depend upon context however)
 - Avoid using spaces e.g.
 'FirstName', "Cell_phone'
 - Generally avoid singular names ("Student" vs. "Students")

Attributes

- Same rules for tables applies
- However attributes should be singular rather than plural e.g. 'HomeAddress' vs. 'HomeAddresses'

