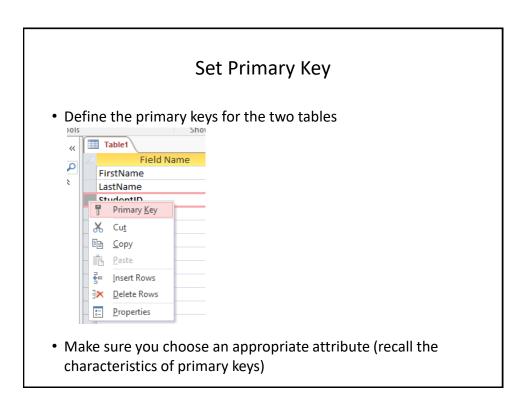
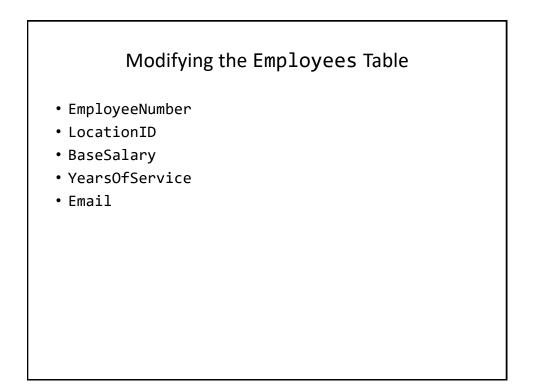


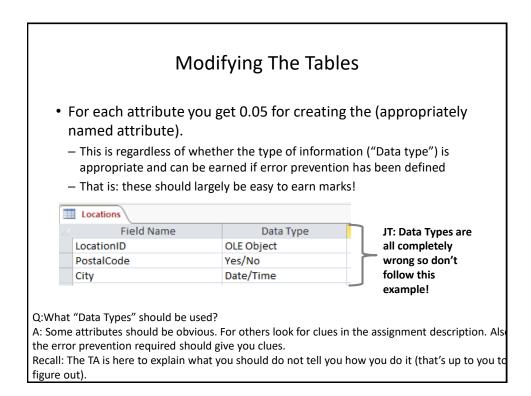
Part I, A2: Creating The Database And Error Prevention

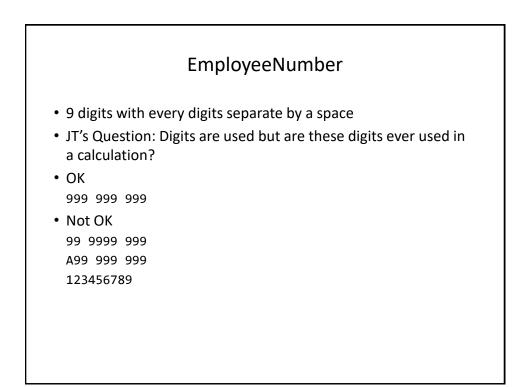
- Creating the two tables
- Creating attributes (appropriate name and type), defining the appropriate error prevention mechanism
 - Modifying the Employees table
 - Modifying the Locations table

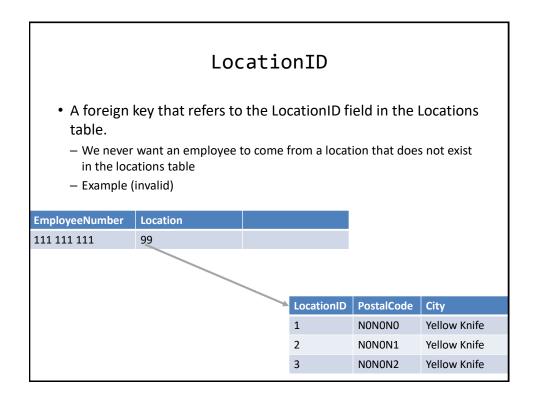
<text>

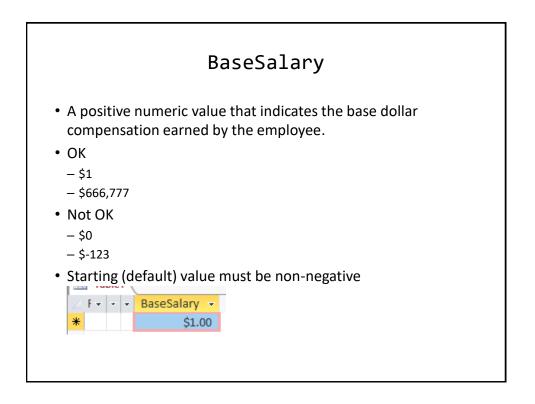






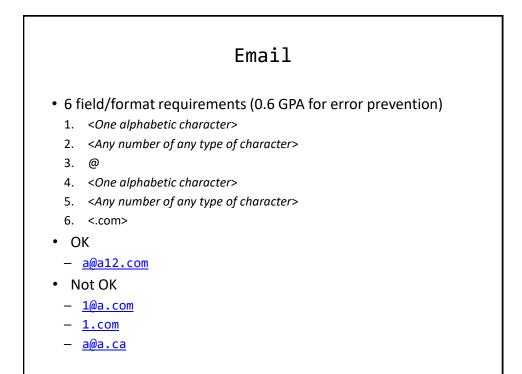






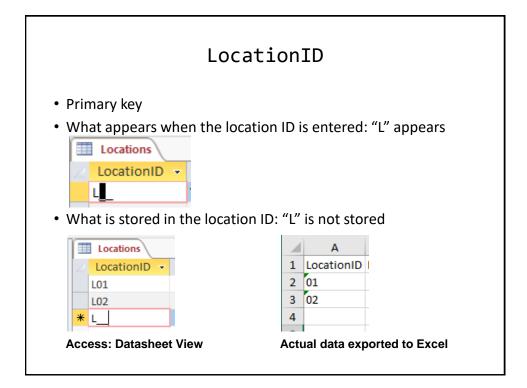


- Non-negative number
- OK
 - 0 years (i.e. a new employee)
 - 1 year
- Not OK
 - -13 years





- LocationID
- PostalCode
- City

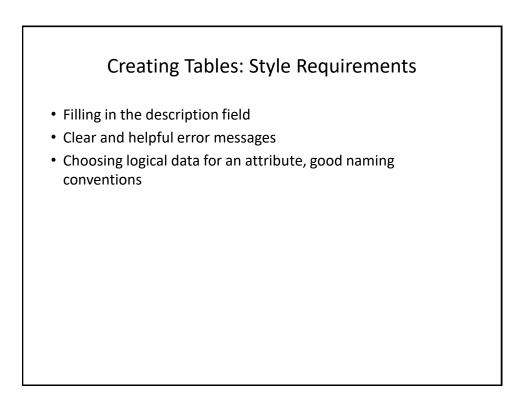




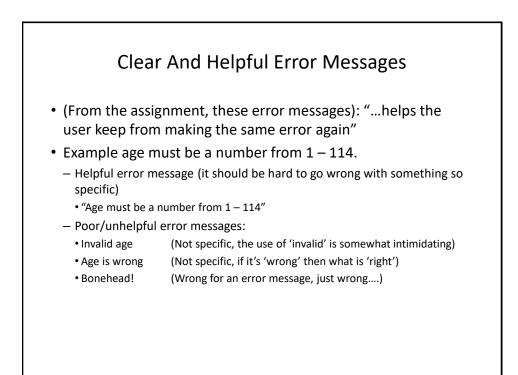
- Six characters in the following format:
 <char><digit><char>-<digit><char><digit>
- OK
 - NØN-ØNØ
- Not OK
 - NØNØNØ
 - NØN ØNØ
 - 0N0-N0N

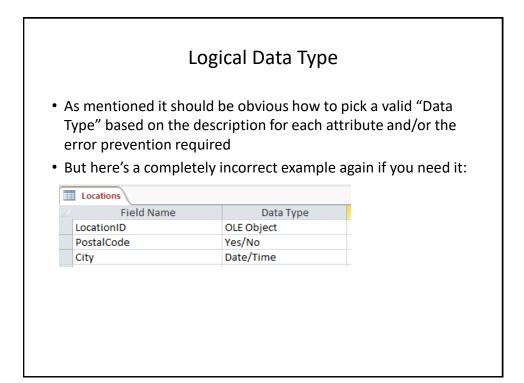
City

• 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'

