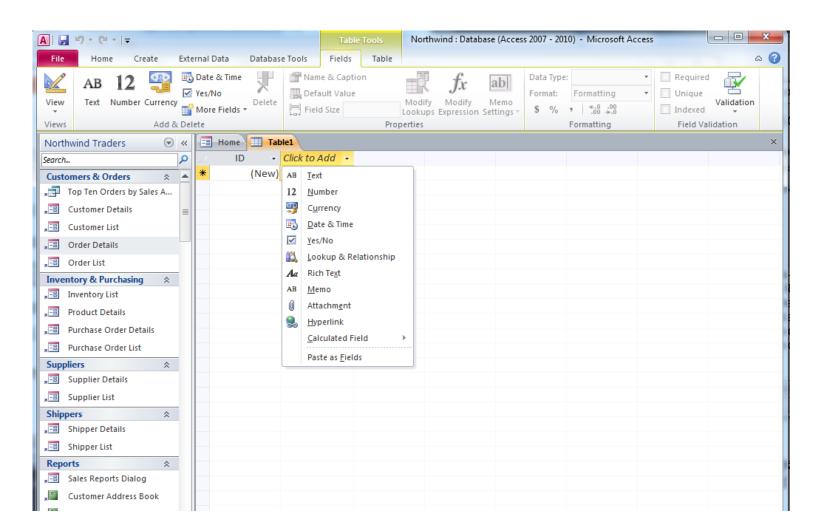
How Do We Create Tables

MAD 202

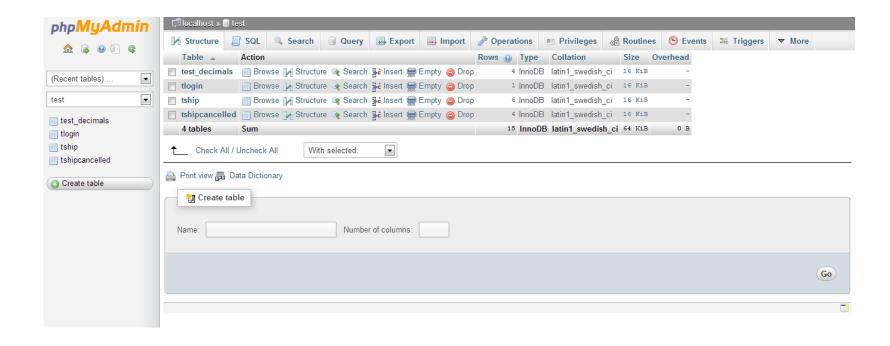


Graphical Tools to Create Tables





Graphical Tools to Create Tables





Data Definition Language

- Database objects like tables and columns are created, modified and removed from the database using DDL.
- Accomplished using the CREATE, ALTER and DROP statements



Table/Column Names

- Must be unique to each database
- Must meet the following rules:
 - Can be up to 128 characters long (MySQL 64 characters long)
 - Must begin with a letter
 - Can contain letters, digits and underscores (_)
 - Can NOT contain spaces or special characters (such as #, \$, &, % or punctuation)
 - Can't be reserved keywords (for example you can't call a table Select or Sum)



Table/Column Names

 You can use a quoted identifier (delimited identifier) to break some of the rules – this involves surrounding the name with double quotes or square brackets

```
[customer addresses]
"customer addresses"
```

It is not recommended



Naming recommendations

- Use lowercase letters
- names_with_underscores are easier to read than nameswithoutthem.
- Use the same conventions/abbreviations throughout the database



Column Data Types

- The data type of each column is a character, numeric, datetime or other data type
- Character String Types has these characteristics:
 - Ordered sequence of 0 or more characters
 - Length can be varying or fixed
 - Is case sensitive (in that A comes before a in sorting)
 - Is surrounded by single quotes in SQL statements



Strings

- Length of the string is an integer between 0 and length.
- A string with no characters is called an empty string
- An empty string is considered to be a VARCHAR of length zero
- Keep columns as short as possible, rather than giving them room to grow in the future
 - shorter columns sort and group faster than longer ones

