

# Temporal Datatypes

MAD 202



# Temporal Data Types

- DATE – used to store date values from the Common Era calendar (standard 365 day Gregorian calendar)
- Has three components:
  - Year
  - Month
  - Day



# Problems with Date

- The allowable date formats for input vary from one database system to the next.

Specify dates in the YYYY-MM-DD format – it is recognized by all database systems.

(Note – dashes are optional 2013-01-22 is the same as 20130122)



# Temporal Data Types

- TIME – used to store time values
- Similar to date values in that there are differences between input format, storage format and display format.
- Use for recurring clock times and for durations
- Time values are based on the 24 hour clock (military time)
- Colons (:) separate the parts of time

hh:mm:ss

In MS ACCESS – surround datetime literals with #, #2006-03-17#



# Temporal Data Types

- Time Stamp – datatypes that consist of both a date and time component
- Use when an event has a specific date and time



# DBMS Datetime Types

- Access – date/time
- SQL Server – datetime, smalldatetime
- MySQL – date, time, datetime, timestamp, year

