Temporal Datatypes

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