Week 3

Case Study #3 (ROBCOR)

David Taniar

READING MATERIALS:

1. Rob C and Coronel C, “Chapter 12: The Data Warehouse”, *Database Systems: Design, Implementation, and Management*, Sixth Edition, Thomson Publishing, pp. 556-607, 2004.
2. Ralph Kimball, et al, *The Data Warehouse Lifecycle Toolkit*, 2nd ed., Wiley, 2008.
3. Ralph Kimball, et al, *The Data Warehouse ETL Toolkit*, Wiley, 2004.

"Robcor Aviation" Case Study

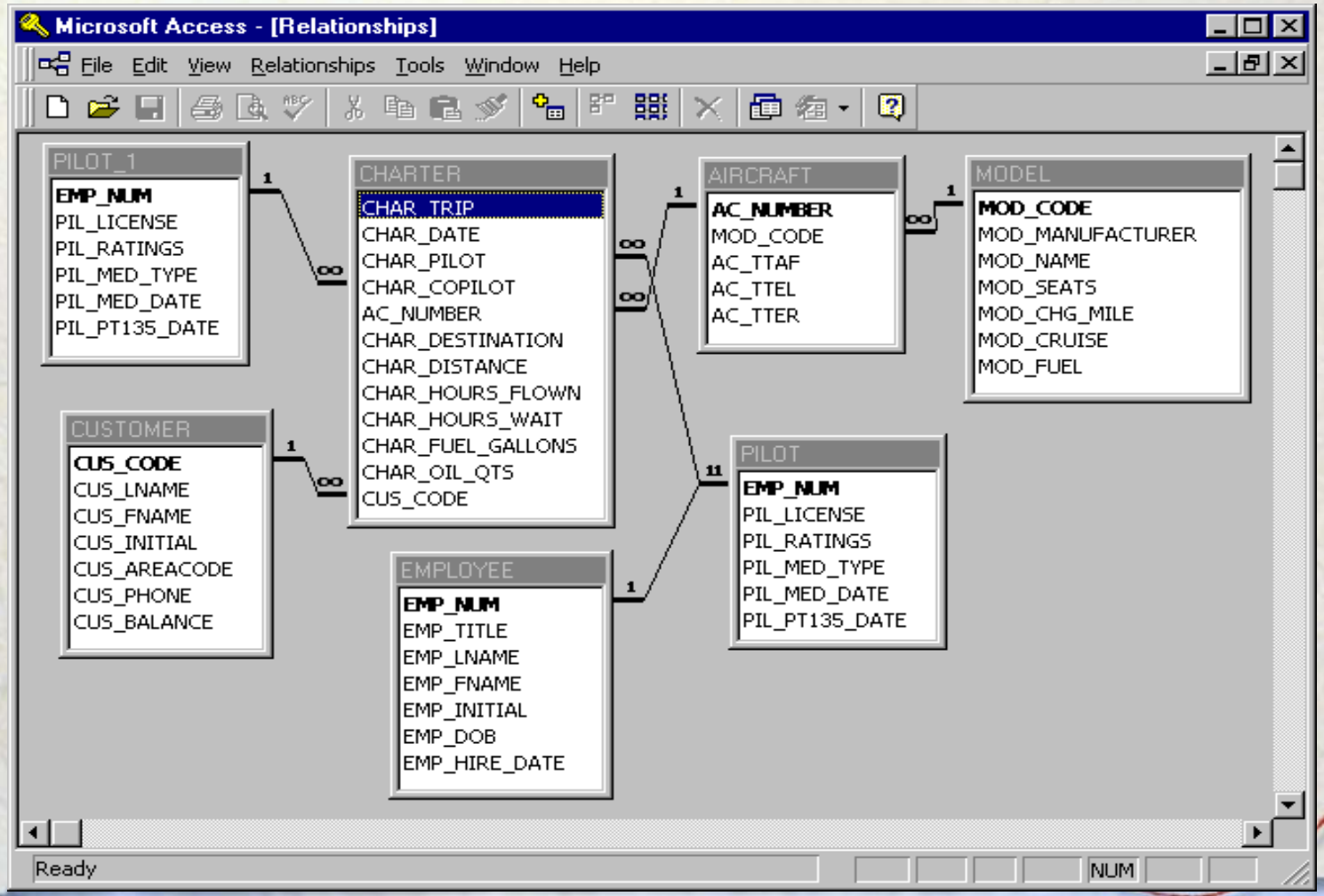
ROBCOR, Inc. provides "on demand" aviation charters, using a mix of different aircraft and aircraft types. Because ROBCOR, Inc., has grown rapidly, it has hired you to be its first database manager. Your first and critical assignment is to develop a decision support system to analyze the charter data.

The charter operations manager wants to be able to analyze charter data such as *total hours flown*, *total fuel used*, and *total revenue* (charter distance x model charge per mile).

She would also like to be able to drill-down by *pilot*, *aircraft model*, and *time periods*.

“Robcor Aviation” Case Study

The database currently has the following tables:



“Robcor Aviation” Case Study

Given these requirements, complete the following:

a) Create a star schema for the charter data.
b) Define the dimensions and attributes for the charter operation’s star schema.
c) Define the SQL statements for the implementation of the star schema.

End of Case Study #3 (ROBCOR)