

# Case Study

Design your own system

# Case Study – So far

- Look up your Case Study on the web page.
- What you have been given is a skeleton project from 'Oracle 9I Programming – A Primer' Sunderraman, Addison-Wesley 2003.
- You need to understand the project and adapt it to suit yourself.
  - Take out the Americanisms
  - Add anything you think is missing.
- Build the project as a Relational Model
  - You may use ERWin to generate the SQL.
- Populate it, initially using INSERT statements.

# Next step

- Design and write a suite of transactions from the perspective of one of the roles in the system.
  - Suggest a list of transactions that you think you should write.
  - Your suggestions must be authorised on week 7.
  - Write the back end of the transactions.

# Writing transactions

- Write the transactions using packages, procedures and functions.
- Interaction to and from the transaction should be through parameters.
- Initially, write anonymous block 'stubs' to
  - accept data from the keyboard
  - Display messages to dbms\_output.

# Further work that will be done

- .doc, specifying transactions and providing a user manual.
- .sql (x3) one for package heading, one for package body, one for calling program.
- .sql for cursor (if not in previous).

# Further work that will be done

- Insert, Update and Delete triggers specific to your application.
- Code used to grant access to another member of your study group.

# Further work that will be done

- Java specification and code to:
  - Implement a front end to your project, using Java.
  - Implement a call to the calling program you wrote in pl/sql.
  - These should be submitted with full explanation of how to execute them!

# Further work that will be done

## XML:

- An alternate table representing two other tables that are currently 1:MANY, using xml.
- Insert statements for the new table.
- Select statements for the new table.

- Objects

- Redesign of your schema, using objects.
- Altered CREATE statements, showing type creation, remedying restrictions placed on system by ER modelling.
- Justification for modelling decisions (.doc).