Course Project
Phase 2

Phase 2

- Three steps:
  - Translate your ER diagram to relational schemas
  - Create tables in a MySQL database
  - Import flight data
- Turn in a document describing
  - Any changes from your initial model
  - Functional dependencies that hold on each schema
  - Any relational decompositions to 3NF or BCNF (and, if you choose not to use BCNF, a justification)
  - The SQL commands you used to create the tables and import the data

Phase 2 Data

- I will provide data (five text files in CSV format) consisting of:
  - Airline information (21 different airlines)
  - Airport information (48 different airports)
  - Aircraft information (~50 unique aircraft models)
  - Flight information (several thousand flights)
  - Fare information (fares sold on each flight)
- You may use the data as provided, or you may pre-process it in any way you choose

Using MySQL

- Each group will have an empty database set up in the MySQL server on orioles.acad.ece.udel.edu
  - Please make sure you are able to log in and let me know ASAP if you can't
- To access:

  /usr/local/mysql/bin/mysql –u [username] –p [dbname]
- I will email each group a database name and password

Importing Data from CSV

/usr/local/mysql/bin/mysqlimport --local [dbname] --fields-terminated-by=, --fields-enclosed-by="'" [file].csv -u [username] –p

- This will import into a table with the same name as the file
- Field order in table schema must be the same as the field order in the file

Phase 2 Due Date

- April 6th (right after spring break)
  - I recommend finishing earlier to have more time to program the application
- Also: midterm will be April 8th in class

