**Carnegie Grant ER Exercise**

**INLS 582, Systems Analysis**

Design an entity relationship model for the database described below. Your model should include entities, attributes, primary keys, and relationships between entities, including cardinality and participation. Please use good naming practice. If you make any assumptions in addition to those given in the description, please include them.

**Back to the Carnegie Grant Application!**

The Assistant Dean of Administration wants to build a database in which she can record information about applications. She wants to capture information about applicants and their advisors, application information, and the budget items listed in the proposed budget.

* Student information should include the student's PID, name, degree, address, and email.
* Advisor information should include the advisor's PID, name, office phone number, and email.
* Application information should include the research description, application date, advisor approval date, and Dean's approval date. It should also include the advisor's rating.
* Budget information should include the amount requested for each category. Assume that the total amount requested will be calculated in a database query.

She will use the database to answer questions such as:

* Has the student named Fred Flintstone ever applied for a grant?
* Advisor Wilma Flintstone would like a list of all students she has approved to receive Carnegie funds.
* Which students requested funds for travel last year?
* Pebbles Flintstone has just submitted an application. How much is she requesting?
* How much has been approved for distribution from the Carnegie Fund this year?