# Database Project Proposal

Names: Ciara Power, Kacper Wołoszyn

Student Number: 20072488, 20071494

Course Title: BSc in Applied Computing

Year: 2nd Year

Proposed Project Title: An Airline Company Database System

Proposed Project Description:

This project will model an airline company’s database system, for example companies such as Aer Lingus or Ryanair. An airline company has many different areas which will need sections of database memory. These areas include Planes Owned, Partner Airports, Employees, Flight Paths, Scheduled Flights, Supply Companies, and Customers.

Each Plane Owned, and each Employee, will have a base airport to which they are connected, which will result in a foreign key being created to link with the relevant Partner Airport. Each Scheduled Flight will be linked to a specific Flight Path, and to the Plane that will undertake the journey. Also, each Flight Path, with primary key Flight Path ID, will have the source and destination Partner Airports linked by foreign key also. The Customers will be linked to a specific Scheduled Flight by foreign key. Supply Companies will be linked to a certain Partner Airport, relevant to its geographic base location.

Other information needs to be stored also, such as Customer and Employee personal information, Plane technical specifications and limitations, Airport capacity and location information, Flight Path journey information, Scheduled Flight capacity and duration information, and Supply Companies product and delivery information.

An airline company is required to store, efficiently manage, and regularly update the above data, as it is in an industry that is highly dependent on accurate data to ensure no mistakes are made which could potentially result in fatalities.