Header Page

Names & Id’s

# Introduction

In this project we created a database for the management of Aircraft engine in an Engine Lease company. This will allow the user to add , update and retrieve data in database. This database is based on the relational model. The database management system also includes management and administrative functions, which use a command-line interface that allows the entry and executio­­­­­­n of language commands A database management system is the tool used to build the structure of the database and in operating on the data contained within it.

The Database is named Engine\_Management and consists of nine tables. Each table stores a specific set of data pertaining the engine, the Operator and to events that occur during the leasing of an Aircraft Engine. The Engine Leasing database system is like a library database system. The Engine, like a books has data specific to that engine. this information is stored in the ‘engine’table. The Lessor details are kept in the ‘customer’ table , a Lessor is located and operates in a specific airspace, this information is stored in the ‘country’ table. Location of a Lessor (Engine operation) has an impact on billing, as the different operating environments has a multiplier due to the erosive effect of the environment in which they operate. The duration of the lease and operational details are kept in the ‘lease’ and operation’ and ‘engine\_usage’ tables. Different rates are applied to each lease, these depend on duration of lease and operating environment, information relating to these are stored in the ‘usage\_rate’ and ‘maintenance\_reserve\_billing’ tables.

## ERD

[Adrian]

# Table Information

List of tables + data + primary Keys

[Mary] – Excel extracts

## List of FD’s for each table

[Mary]

# 3NF Proof

[Adrian/Mary]

# Design Justifications

## Views

plus scenario for use

[Adrian]

## Indexes

plus scenario

[Adrian]

## Triggers/Stored Procedures

plus scenario

[Adrian]