Assignment 1. Building the RDBMS Oracle 11g Enterprise Database.

Marking Guide –The following acts as a guide as to marks that can be expected based on levels of achievement in conjunction with a clear demonstration of your understanding with regard to your knowledge of Oracle 11g implementation and database administration.

- **Please do not call your database ORCL (the default name) this will make me very suspicious that you have merely copied someone else's screen captures.**
- **Please do not ask to demonstrate your database to me. Your mark will be based on your documented hand in. If I choose, I may ask to see your database.**

C. A bare 50% passing grade.

To pass this assignment with a bare 50% you **MUST** achieve the following. Proof of your work will be a combination of screen snapshots of your work as well as meaningful discussion. The discussion may be brief. No marks will be awarded for screen caps of the installation process. I'll be looking for a screen cap of Oracle Enterprise manager showing your database up and running.

- Have your Oracle 11g Enterprise database running in your Virtual Machine.
- Enterprise Manager Console (Database Control) running
- Oracle SQL Developer Running and connected.
- Brief documentation as proof of the above.

C+ - B (55%-65%)

To achieve a C+ or close to a B grade I would expect in addition to above, that the following is completed. Note, backup of the database is compulsory to move beyond a bare C grade. Your documentation will briefly explain each of the achieved features.

- A back up of your database (compulsory)
- Creation of new data files and tablespaces, and/or
- Duplexing and multiplexing of control and redo log files and/or
- Creation of some USERs
- Appropriate documentation to a good standard

B – B+

To achieve a B and higher towards a B+, I will be expecting at least some of the following (including all of the above required for a C and C+ grade)

- Alternative methods of backups, exports, scheduled backups, hot backup
- Demonstration of a DB recovery from cold backup or exports or other methods.
- Creation of multiple users and application of appropriate security measures – roles, privileges and profiles.
- Demonstration of security auditing
- Appropriate supporting documentation to a high standard.

A – A+

To achieve and A or a higher A grade I will be looking for advanced knowledge, and accompanying documentation to an excellent and professional standard (including most or all of the above required for the C and B grades). Following are some possible implementation options – note some of these options individually will not be enough to achieve an A.

- Advanced replication between multiple instances.
- Demonstration of Oracles DR standby database option.
- Demonstration of a complex recovery including the application of archived redo logs.
- Demonstration of XML database
- Oracle Virtual Private Database
- Implementation of OS level authentication
- Demonstration of Oracle's Tuning features
- Demonstration of table partitioning options
- Appropriate documentation to an excellent and professional standard.

Note that the general aim of the documentation is to convince me that you understand what you are doing, and as evidence that you have achieved the features implemented. Copied material from Oracle's documentation will not be marked and constitutes plagiarism. Don't do it.