**SQL Lab**

# Setting up Oracle Chinook

In this section you will begin the process of working with the Oracle Chinook database

Task – Open the Chinook\_Oracle.sql file and execute the scripts within.

## 2.0 SQL Queries

In this section you will be performing various queries against the Oracle Chinook database.

## 2.1 SELECT

Task – Select all records from the Employee table.

Task – Select all records from the Employee table where last name is King.

Task – Select all records from the Employee table where first name is Andrew and REPORTSTO is NULL.

## 2.2 ORDER BY

Task – Select all albums in Album table and sort result set in descending order by title.

Task – Select first name from Customer and sort result set in ascending order by city

## 2.3 INSERT INTO

Task – Insert two new records into Genre table

Task – Insert two new records into Employee table

Task – Insert two new records into Customer table

## 2.4 UPDATE

Task – Update Aaron Mitchell in Customer table to Robert Walter

Task – Update name of artist in the Artist table “Creedence Clearwater Revival” to “CCR”

## 2.5 LIKE

Task – Select all invoices with a billing address like “T%”

## 2.6 BETWEEN

Task – Select all invoices that have a total between 15 and 50

Task – Select all employees hired between 1st of June 2003 and 1st of March 2004

## 2.7 DELETE

Task – Delete a record in Customer table where the name is Robert Walter (There may be constraints that rely on this, find out how to resolve them).

# SQL Functions

In this section you will be using the Oracle system functions, as well as your own functions, to perform various actions against the database

## 3.1 System Defined Functions

Task – Use a function that returns the current time.

Task – Use a function that returns the length of a mediatype from the mediatype table

## 3.2 System Defined Aggregate Functions

Task – Use a function that returns the average total of all invoices

Task – Use a function that returns the most expensive track

# 7.0 JOINS

In this section you will be working with combing various tables through the use of joins. You will work with outer, inner, right, left, cross, and self joins.

## 7.1 INNER

Task – Create an inner join that joins customers and orders and specifies the name of the customer and the invoiceId.

## 7.2 OUTER

Task – Create an outer join that joins the customer and invoice table, specifying the CustomerId, firstname, lastname, invoiceId, and total.

## 7.3 RIGHT

Task – Create a right join that joins album and artist specifying artist name and title.

## 7.4 CROSS

Task – Create a cross join that joins album and artist and sorts by artist name in ascending order.

## 7.5 SELF

Task – Perform a self-join on the employee table, joining on the reportsto column.