#### **Contents**

- Overview
  - 1. Objectives
  - 2. Prerequisites
  - 3. Demo Due Date
  - 4. Scoring
- Part 1 Writing Multiple Table Queries
- Appendix Human Resource Entity Relationship Diagram

#### **Overview**

### **Objectives**

The objectives of this lab are:

- Write SELECT statements to access data from more than one table using equality and inequality joins
- View data that generally does not meet a join condition by using outer joins.
- Join a table to itself using a self-join.
- Use SQL\*Plus to format a report

1. Read Chapter 2, pages 45-61.

#### **Prerequisites**

(	 	Tread Chapter 1) pages 15 cm
(	2.	Work your way through the examples on pages 45-61.

- You do not have the Store schema tables installed in your schema. The Store schema tables are available in the STOREDB schema.
- To use the Store Schema tables in your textbook examples, you need to put STOREDB. (dot) in front of the table names. For example, to run the command in the middle of page 34 you would write:

SELECT price \* 2 DOUBLE\_PRICE FROM storedb.products;

Note the "storedb" can be either upper or lower case.

Versions of Oracle prior to 9i use the ANSI SQL/86 standard. Oracle 9i implemented the ANSI SQL/92 standard which introduced new standards for joining tables.

### **Demo Due Date:**

For all sections, the lab demo is due in 1 week (Feb 07-11) by the end of your lab session.

# **Scoring:**

Lab is worth 14 marks.

# **Part 1: Writing Multiple Table Queries**

	3.	As per Lab01, create a Lab03 folder.
	4.	For the following, you will need to use the Human Resource tables you created in LabO1. These questions do not use the <b>STOREDB</b> tables used in the textbook examples, only the tables you installed from LabO1 (e.g. the <b>Employees</b> table). Don't forget to use the DESC statement to view the structure (the column names) of a table. For example, use <b>DESC Employees</b> to view the structure of the <b>Employees</b> table. The appendix contains an ER diagram of the Human Resource tables.
	4.	The file Lab03 Questions.sql has 14 questions in it. Download this to your lab03 folder. Each query is worth 1 mark. For this lab you will be required to answer some of the questions using the ANSI SQL/86 standards and the ANSI SQL/92 standards.
	5.	After you have created the SQL query for each question, add that SQL under the question in the file.
emo		Note: Be sure to use proper formatting in your SQL statements. The SELECT should be on one line, the FROM on another line and so on. Each clause should start a new line. You will lose marks if you do not use proper formatting with your SQL statements!
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6. Demo to the instructor that your script executes successfully in SQL\*Plus. (14 marks)

# **Appendix**

# **Human Resource Entity Relationship Diagram**

- Column names high-lighted in yellow are the Primary Key.
- Represents a 1 to many relationship. For example, the location\_id in the LOCATIONS table could appear many time in the location\_id of the DEPARTMENTS table. Try running the following query and you can see that the same location id appears multiple times.

SELECT location\_id FROM departments ORDER BY location\_id;

