

# Course Syllabus

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## Live Lectures:

Attend online on

Monday and Wednesday from 6:00 pm to 7:50 pm. Details on attending are emailed to students and also posted on canvas.

Recordings are made available for replay - so you can grasp concepts.

You are encouraged to ask questions during live lectures.

## Office Hours

No office hours during Summer 2020.

## Student Learning Outcomes:

Design solutions for introductory level problems using appropriate design methodology incorporating interpreted database constructs.

Create algorithms, code, document, debug, and test introductory level SQL programs.

## Office Hours

Monday and Wednesday 1:00 pm to 2:50pm

## Faculty Information

Sukhjit Singh Phone: 408 864 5566 Email: [singhsukhjit@fhda.edu](mailto:singhsukhjit@fhda.edu) Office Location: F51e

**Requisites:** None

## Advisory:

English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 64A.

## Hours:

Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).

## Description:

Introduction to Oracle SQL (Structured Query Language), DML (Data Manipulation Language) processing techniques, DDL (Data Definition Language) techniques, selecting and sorting data, joins, SQL functions, Oracle objects, Oracle data processing concepts to maintain large database systems.

**Class Topics** (When course is taught in 12 weeks. For Summer we just go at 2x the speed.)

**Week 1**

Oracle Architecture and Basics

**Week 2**

Basic Select Statements

**Week 3**

Joins

**Week 4**

SQL Functions, Group By and Having Clause

**Week 5**

Transaction - nuts and bolts and other miscellaneous stuff

**Week 6**

Midterm

**Week 7**

DB Theory and Normalization

**Week 8**

Creating Tables

**Week 9**

Database Objects and Indexes

**Week 10**

Database Utilities

**Week 11**

Database Security

**Week 12 - Final****Advisory (per catalog):**

English Writing 100B and Reading 91 (or Language Arts 100), or English as a Second Language( per catalog). Computer Information Systems 64A.

**Goals:**

Upon completion of the course, the student will be able to:

- A. Understand the basic features of Databases
- B. Write basic SQL statements to Restricting/Sorting Data
- C. Use Single-Row functions
- D. Use Joins to get data from multiple tables
- E. Aggregate data and write subqueries
- F. Format Output and write DML statements
- G. Create Database Objects
- H. Use different levels of user access and variables
- I. Use Control Structures, Composite Datatypes
- J. Use Cursors
- K. Include Exception Handling in their SQL code

### **My Comments:**

This course is taking a deeper approach in helping you understand Oracle SQL. (However this might make you a better DBA). We get into Oracle Internals and you will have a better appreciation of the subject matter, if you have taken the background courses. As you will see below, my focus is on Oracle's approach for creating an RDBMS. You will always have the SQL manual for reference but the focus of this class is for a developer to know the inside Oracle so well, that they can help a DBA to perform their job better. Get ready to see databases in a whole new way.

### **Course Structure:**

Two way discussion on subject material is highly encouraged during lectures. You should spend 12 hours per week to be able to finish your lab assignments and studying for the class.

### **Required Accounts:**

You will need an account on:

- a. De Anza's Oracle Database
- b. <http://otn.oracle.com>
- c. unix acct to access database remotely
- d. windows acct to access database from the lab.

### **Required Text:**

ISBN-10: 0321444434

ISBN-13: 978-0321444431

**SQL Queries for Mere Mortals®: A Hands-On Guide to Data Manipulation in SQL (2nd Edition)**

[Paperback]

John L. Viescas (Author), Michael J. Hernandez (Author)

**Attendance:**

Your attendance is expected in all lectures. You do not have to call me with an absent excuse, if you are going to be absent from the class. You can either attend the live lecture or recordings of lectures.

**Withdrawing:**

Once you are added to the class it is your responsibility to withdraw. I will not drop you from the class. The earned grade will be assigned at the end of the quarter.

**Adding the class and late adds:**

At Instructor's discretion you may be assigned an addcode. you should add the class within normal dates provided in academic calendar on De Anza's website. If you do not add the class, during the scheduled time, no late adds will be processed by instructor.

**Academic Dishonesty:**

You are encouraged to discuss the ideas presented in the class. Copying or Cheating of work will result in zero grade for that assignment and may result in a failing grade. Basically I cannot tolerate cheating. You must work your solutions independently and all assignments and tests should be your own original work.

**Lab Assignment Submission format:**

(Please follow - This is important)

If instructions are not followed assignments will be returned ungraded and late penalty will be assessed when they are turned in. Each submission should contain the following information:

Oracle SQL

Lab Assignment #

Your Name

Last four digits of your Student ID #

Due date

Date Handed in

Pl. submit your source code in a .sql file and test runs in a .txt by email to **cislabs05@gmail.com**.

Whenever sending more than one file as attachment, please be sure to zip all the necessary files.

Lab Assignment Grading Due dates will be provided on the calendar. Assignments turned in late will earn a maximum of 50% credit. No work will be accepted after the last lecture day.

For my classes reading the text before class is highly recommended.

**Installing Oracle on your home computer (NOT RECOMMENDED FOR THIS COURSE):**

You can download latest version from Oracle's Website. You may download Oracle Personal Edition or Enterprise Edition using <http://otn.oracle.com/>.PS - I cannot provide installation help on Oracle Server. Pl. read installation instruction on Oracle's website. If you have trouble installing Oracle, pl. get an account on our server in Lab and access it remotely.

**Recommendations for reference texts:**

Oracle SQL Manuals for Oracle 11g or latest version from [otn.oracle.com](http://otn.oracle.com).

Oracle Server Concepts for Oracle 11g or latest version from [otn.oracle.com](http://otn.oracle.com)

**Grading System:**For Letter Grade:

Grade: A+ assigned with 97% or higher

Grade: A assigned with 93% or higher

Grade: A- assigned with 90% or higher

Grade: B+ assigned with 87% or higher

Grade: B assigned with 83% or higher

Grade: B- assigned with 80% or higher

Grade: C+ assigned with 77% or higher

Grade: C assigned with 73% or higher

Grade: D+ assigned with 70% or higher

Grade: D assigned with 63% or higher

Grade: D- assigned with 60% or higher

Grade: F assigned with 0% or higher

For Pass/No Pass:

Grade: Credit assigned with 70% or higher

Grade: No Credit assigned with 0% or higher

IncompleteAuditWithdrawal**Grading**

Final - 40% of the grade

Labs - 30% of the grade

Midterm - 30% of the grade









### Assignments Due Dates:



You will be assigned 8 to 10 assignments during the quarter. Assignment details can be found on the [Assignment](#) page. Midterm and Final dates can also be found on the [Assignment](#) page.

### Methods of Evaluating Objectives

One or two midterm examinations requiring students to write code applying topics covered in the lectures and reading. Final examination requiring students to write code applying topics covered in the lectures and reading. Evaluation of programming assignments, based on correctness, documentation, code quality, and test plan executions.

## Course Summary:

Date	Details	
Fri Jul 3, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355866">Assignment 1</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355866">https://deanza.instructure.com/courses/14452/assignments/355866</a> )	due by 11:59pm
Wed Jul 8, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355867">Assignment 2</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355867">https://deanza.instructure.com/courses/14452/assignments/355867</a> )	due by 11:59pm
Sun Jul 12, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355868">Assignment 3</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355868">https://deanza.instructure.com/courses/14452/assignments/355868</a> )	due by 11:59pm
Wed Jul 15, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355875">Midterm</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355875">https://deanza.instructure.com/courses/14452/assignments/355875</a> )	due by 8pm
Thu Jul 16, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355869">Assignment 4</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355869">https://deanza.instructure.com/courses/14452/assignments/355869</a> )	due by 11:59pm
Tue Jul 21, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355870">Assignment 5</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355870">https://deanza.instructure.com/courses/14452/assignments/355870</a> )	due by 11:59pm
Sat Jul 25, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355871">Assignment 6</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355871">https://deanza.instructure.com/courses/14452/assignments/355871</a> )	due by 11:59pm
Sat Aug 1, 2020	 <a href="https://deanza.instructure.com/courses/14452/assignments/355872">Assignment 7</a> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355872">https://deanza.instructure.com/courses/14452/assignments/355872</a> )	due by 11:59pm

Date	Details
Wed Aug 5, 2020	 <b>Final</b> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355874">https://deanza.instructure.com/courses/14452/assignments/355874</a> ) due by 8pm
	 <b>Assignment 8</b> ( <a href="https://deanza.instructure.com/courses/14452/assignments/355873">https://deanza.instructure.com/courses/14452/assignments/355873</a> ) due by 11:59pm