SIT103 Database Lab Exercise 2 - SQL

Tutorial Exercises

Using the STUDENT tables, write queries to produce the following reports.

- A. Give full details of student 8701872G. Select * from student where details = 8701872G:
- B. List students enrolled in programme 165000, in surname order, listing: Student Number, Full name, Sex and date of birth.

 Select student_no, SURNAME II ', 'II GIVEN AS "Full Name", sex, dob as "birth" from student where PROGRAMME_CODE = 165000 order by surname;

 C. List students that were born before 1965?
- Select * from student where dob < 1965;
- D. Show course code and course name of all courses whose code starts with AC? Select COURSE CODE, COURSE NAME from COURSE where COURSE CODE like 'AC%':
- E. Print all programme codes and programme names for department 165. Select PROGRAMME_CODE, PROGRAMME_NAME from PROGRAMME where DEPT_NO
- F. List all part time students, sorted by Surname then sorted by Given name listing: Student Number, Programme code, Student Name and Phone number. Select STUDENT_NO , PROGRAMME_CODE, SURNAME II ', ' II GIVEN AS "Full Name", PHONE from student order by Surname, given;
- G. List the Names, Addresses and Phone numbers of all males living in Carlton (postcode 3053). Select surname II','II given as "name", ADDR1 II','II ADDR2 II','II ADDR3 AS "address", phone from student where POSTCODE = 3053 and SEX = M;
- H. Show the course names of all courses in department 165, sorting the course name in descending order.

- Select COURSE_NAME from course where DEPT_NO = 165 order by COURSE_NAME DESC;

 I. List all male part-time students, showing students full name and student number only, in youngest to oldest order (based on date of birth).

 Select surname II','II given as "full name", STUDENT_NO from student where sex = M and PROGRAMME_LOAD = P order by DOB DESC;
- J. List all the student numbers of students enrolled (student course) in the course AD513 and starting in semester 1.

Select STUDENT_NO from STUDENT_COURSE where COURSE_CODE = AD513 and sem_start = 1;

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TABLE DEFINITIONS

STUDENT TABLE

Name	Туре
STUDENT_NO	CHAR (8)
SURNAME	VARCHAR2(30)
GIVEN	VARCHAR2(30)
DOB	DATE
SEX	CHAR(1)
ADDR1	VARCHAR2(40)
ADDR2	VARCHAR2(40)
ADDR3	VARCHAR2(40)
POSTCODE	NUMBER (4)
PHONE	VARCHAR2(20)
PROGRAMME_CODE	VARCHAR2(6)
PROGRAMME_LOAD	VARCHAR2(1)

PROGRAMME TABLE

Name	Туре
PROGRAMME_CODE	VARCHAR2(6)
PROGRAMME_NAME	VARCHAR2(50)
DEPT_NO	NUMBER (38)

COURSE TABLE

Name	Type	
COURSE_CODE	CHAR(5)	
COURSE_NAME	VARCHAR2(60)	
DEPT_NO	NUMBER (38)	

STUDENT_COURSE TABLE

Name	Туре
STUDENT_NO	CHAR(8)
COURSE_CODE	CHAR(5)
COURSE_PROGRAMME	VARCHAR2(6)
SEM_START	NUMBER(1)
SEM_DURATION	NUMBER(1)
RESULT	VARCHAR2(4)

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