<u>ASSIGNMENT 8</u> Subqueries

Follow the same formatting guidelines as the previous homework assignment.

YOU must use subqueries. Do not put any codes in your SQL statements. When pasting your results just provide the first five rows of output if your result set exceeds five rows.

results, just provide the first five rows of output if your result set exceeds five rows Copy and paste the contents of student.txt into your SQLPlus session. Rename the tables such that they are all prefixed with the first five letters of your lastname such as sabze student. Make sure that the tables (student, class and student_class) are all renamed properly before you continue. You don't need to paste anything from SQLPlus for this question. Using a single SQL statement display fname. Iname of all the students who are taking **Database Programming** regardless of case. SELECT fname "First Name", lname "Last Name" FROM chave student WHERE ssn IN (SELECT ssn FROM chave student class WHERE class code = (SELECT class_code FROM chave class WHERE LOWER(class description)='database programming')); ⊕ First Name | ⊕ Last Name 1 Johnson White 2 Abraham Bennet del Castillo 3 Innes 2 Using a single SQL statement display all the rows from the student_class table where class description is not null SELECT ssn, class code "Class Code" FROM chave student class WHERE class code IN (SELECT class code FROM chave class WHERE class description IS NOT NULL); ⊕ SSN Class Code 1 172-32-1176 37 2 213-46-8915 32 3 267-41-2394 34 4 409-56-7008 37 5 427-17-2319 34 NOTE: Only the first 5 rows of the output are shown

3 Using a single SQL statement display fname, Iname of all the students whose first name is anything except John, Jack or Bob. and are taking the operating systems class and their phone number is null SELECT fname "First Name", lname "Last Name" FROM chave student WHERE INITCAP(fname) NOT IN ('John', 'Jack', 'Bob') AND phone IS NULL AND ssn IN (SELECT ssn FROM chave_student_class WHERE class code = (SELECT class code FROM chave class WHERE LOWER(class_description) = 'operating systems')); ⊕ First Name | ⊕ Last Name 4 Using a single SQL statement display ssn, fname, lname, age/2 of all the students whose first name begins with the letter J and age is greater than 25 and are taking any class that contains 'Intro' in its description (Have to convert the dob into a number). Order the results by age/2 in descending order. Use an alias for the order by clause SELECT ssn, fname "First Name", lname "Last Name", (TRUNC(MONTHS_BETWEEN(SYSDATE, dob)/12))/2 "Age" FROM chave_student WHERE INITCAP(fname) LIKE 'J%' AND (TRUNC(MONTHS BETWEEN(SYSDATE,dob)/12)) > 25 AND ssn IN (SELECT ssn FROM chave_student_class WHERE class_code IN (SELECT class code FROM chave class WHERE INITCAP(class_description) LIKE 'Intro%')) ORDER BY "Age" DESC; Last Name ⊕ Age ⊕ SSN First Name Using a single SQL statement display fname, Iname from the student table where last name contains the letters 'nn' (e.g. Benny, Bonny, Sonny) and is enrolled in any class that contains the letter 'h' in its description regardless of case. Order the results by Iname. When using order by use the position and not the name of the column SELECT fname "First Name", lname "Last Name" FROM chave student WHERE LOWER(lname) LIKE '%nn%' AND ssn IN (SELECT ssn FROM chave student class WHERE class code IN (SELECT class code FROM chave_class WHERE LOWER(class_description) LIKE '%h%')) ORDER BY 2; First Name

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Using a single SQL statement, delete all the rows from the class table for all
     classes that are associated with students who live in Sacramento and earn less
     than 15000 (NOTE: you are deleting from the class table)
     DELETE FROM chave_class WHERE class_code IN
        (SELECT class_code
         FROM chave_student_class
         WHERE ssn IN
           (SELECT ssn
            FROM chave_student
            WHERE UPPER(city) = 'SACRAMENTO' AND salary < 15000));
      0 rows deleted.
7
      Using a single SQL statement use a combination of create and select to create
      a new table called class2 that contains the list of all the classes that are taken by
      students who are older than 30 years old
     DROP TABLE chave class2;
      CREATE TABLE chave_class2 AS SELECT class_description
     FROM chave class
     WHERE class code IN
        (SELECT class code
        FROM chave student class
         WHERE ssn IN
           (SELECT ssn
            FROM chave student
           WHERE (TRUNC (MONTHS BETWEEN (SYSDATE, dob) /12)) > 30));
      SELECT * FROM chave class2;
      table CHAVE CLASS2 created.
            ⊕ CLASS_DESCRIPTION
           2 Introduction to C programming
           3 Database Programming
           4 (null)
     Update the salary to 75000 for all students who are enrolled in 'Database
     programming' regardless of case and live in CA
     UPDATE chave_student
     SET salary=75000
     WHERE ssn IN
        (SELECT ssn
        FROM chave student class
        WHERE class_code =
          (SELECT class code
           FROM chave class
           WHERE LOWER(class_description) = 'database programming' AND UPPER(state) = 'CA'));
      1 rows updated.
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