

Lab 5

Due Oct 21, 2020 by 11:59pm **Points** 10 **Submitting** a file upload **File Types** sql
Available until Dec 16, 2020 at 11:59pm

This assignment was locked Dec 16, 2020 at 11:59pm.

Labs 4 to 7 are SQL scripts; if they do not run in their entirety without error, they will be graded 0.

Statement of Authorship

- Lab to be done individually
- In order to be graded, the following Statement of Authorship must be present at the beginning of the script
- I, Firstname Lastname, student number 123456789, certify that this material is my original work. No other person's work has been used without due acknowledgment and I have not made my work available to anyone else.
- Replace Firstname Lastname with your name and 123456789 with your student number

Overview

- Start SQL Server and SQL Server Management Studio, see [lab 0](#) for instructions on how to use SQL Server and SSMS
- Click the New Query button
- Change output to text (Query menu / Results To / Results to Text); this will allow the PRINT statements to appear in the results
- Create a database script named lab5.sql



File menu / Save SQLQuery1.sql As / change File name to **lab5.sql** and choose a location / click Save button

- Include a comment heading block with:
 - Script name
 - Your name
 - Date
 - Statement of Authorship “I, Student Name, student number 123456789, certify that this material is my original work. No other person's work has been used without due acknowledgment and I have not made my work available to anyone else.”
- **Statement of authorship must be present and updated with your name and student number, or your work will not be graded**
- The first SQL statement of the script (after the comment block) must be USE CHDB
- The script will have 10 SELECT statements
- Below are 6 groups of SELECT scenarios; each group has 2 or 4 scenarios to choose from

- You will choose 1 or 2 from each group
- Each SELECT statement will have a PRINT statement **before** it that clearly identifies which group it is from and which particular SELECT it is (ex. PRINT 'GROUP 1 SELECT C')
- Every result set should have at least one row; no result set should have more than 50 rows


Group 1 - Basic Queries - Pick 2

- Show a count of child patients. A child is a person who is less than 18 years of age on the day the query is run, use the GETDATE() function for the current date. Calculate the age as accurately as possible.
- Show a count of male patients that weigh less than the average weight of female patients.
- Find the first name, last name, and height of the tallest female patient, there may be more than one.
- Show the first name, last name, allergies, and weight of patients that don't live in Ontario, have no allergies (NULL), and weigh less than 75 kg.

Group 2 - Sub-totals using GROUP BY - Pick 2

- Produce a census report for the nursing units on the 1st and 2nd floors. Show the number of current admissions (no discharge date) for each nursing unit that begins with a '1' or a '2'.
- Show the number of current admissions (no discharge date) each attending physician has.
- Show a count of patients by province except for Ontario.
- Show a count of the male and female patients that are taller than 175 cm.

Group 3 - Two table JOINS and ORDER BY - Pick 2

- List the patient id, first name, last name, room number, and bed number for every current admission (no discharge date) in Short Stay (2SOUTH). Order the results by the last name.
- List the pharmacist's initials, entered date, and dosage for every pharmacist who has made up a Unit Dose Order for Morphine. Order the results by pharmacist initials.
-  List the physician id, physician's first name, physician's last name, nursing unit, and room number for every current admission (no discharge date) whose attending physician is a Pediatrician. Order the results by the nursing unit then room number.
- List the department id, department name, manager first name, manager last name, purchase order id, and the total amount for any purchase order worth over \$1,500.00. Order the results by department id.

Group 4 - Three table JOINS - Pick 2

- List the physician id, physician's first name, physician's last name, and specialty of any physician who has had an encounter with the patient named Harry Sullivan.
- List the patient id, patient first name, patient last name, nursing unit and primary diagnosis of any current admission (no discharge date) whose attending physician's specialty is Internist.

- C. For every current admission (no discharge date) in CCU list patient id, room number, bed number, and medication description of each medication that they have a unit dose order for.
- D. List the purchase order id, order date, quantity ordered, item id, and description of purchase order line items that have an ACTIVE purchase order status and a received value of 0.

Group 5 - Four table JOINS - Pick 1

- A. List the physician first name concatenated with a space and physician last name and aliases as physician, the specialty of the nursing unit, patient first name concatenated with a space and patient last name and aliased as patient, primary diagnosis for current admissions (no discharge date) that have no secondary diagnoses.
- B. List the patient first name concatenated with a space and patient last name and aliased as patient, nursing unit, room, and medication description for any current admissions (no discharge date) who are allergic to Penicillin.

Group 6 - WHERE [NOT} EXISTS - Pick 1

- A. List the patient id, primary diagnosis, and attending physician id for current admissions (no discharge date) in ICU who haven't had an encounter with their attending physician.
- B. List the purchase order id, order date, and department id for any purchase order that has no associated purchase order lines.

Grading

Marks will be deducted if:

- Comment block is incomplete
- First SQL statement is not USE CHDB
- Any of the SELECTs are not identified with PRINT statements before them



Criteria	Ratings			Pts
GROUP 1 - 1st SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 1 - 2nd SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 2 - 1st SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 2 - 2nd SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 3 - 1st SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 3 - 2nd SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 4 - 1st SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 4 - 2nd SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 5 - SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
GROUP 6 - SELECT	1 pts Full Marks	0.5 pts Partial Marks	0 pts No Marks	1 pts
Total Points: 10				