



# UNIVERSITY OF MORATUWA

Faculty of Information Technology

B.Sc. (Hons) IT & AI

Level 2 Semester 2

IN2401 – Database Management Systems

## Practical 4 – MSSQL SERVER – SQL Queries

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Consider the following relational schema. An employee can work in more than one department; the pct-time field of the Works relation shows the percentage of time that a given employee works in a given department.

**Emp( *eid*: integer, *ename*: string, *age*: integer, *salary*: real)**

**Works( *eid*: integer, *did*: string, *pct-time*: integer)**

**Dept( *did*: string, *budget*: real, *managerid*: integer)**

Write SQL queries to create the above relational schema to the appropriate table structure.

Write SQL queries to the following:

1. Print the name and age of each employee who works in both the Hardware and Software departments.
2. Print the name of each employee whose salary exceeds the budget of all of the departments that he or she works in.
3. Find the managerid of managers, who manage only departments with budgets greater than \$1,000,000.
4. Find the ename of the manager who manage the department with the largest budget.
5. If a manager manages more than one department, he or she controls the sum of all the budgets for those departments. Find the managerid of managers who control more than \$1,000,000.
6. Find the managerid of managers who control the largest amount.