

COMP20160 Database Project – Patrick Moorehouse

List Of Assumptions:

For this project, a number of assumptions had to be made in order to determine the specifications of the database to be created. Here are the assumptions that were made.

1. There must be one Supervisor associated with each Project. A Project cannot exist without a supervisor to create it. A Supervisor can exist with no associated Project however.
2. A Student can be assigned to only one Project.
3. A Project can have any number of Students assigned to it.
4. A Student can give only one Presentation for a specific Project, which is treated like an interview, and is the means by which a student may be awarded a position in the project.
5. A Student may give many Presentations for other Projects, but only one per Project.
6. Only one Supervisor is present for a given Presentation, which is given by the Student with the hopes of gaining entry into the Project that Supervisor is in charge of.
7. Presentations given by Students are deemed to be unique. They may give similar Presentations for other Projects, which similarly show off their specific Skills that may be relevant to the Project, but each Presentation is given to one Supervisor at a time, and are each geared towards a specific Project. Therefore, while a Student may give many Presentations, they are treated as separate, unique entities and not repetitions of the same entity.

Instructions For Database Application Usage

The Application opens in the Main Menu. From here, the user may proceed to one of five main sub menus, which are Students, Supervisors, Projects, Presentations, and Skills.

The Tasks outlined in the project specification can be found by following the directions below, which assumes the user is beginning from the main menu.

Queries:

1. Find a student by name or reference number
Main Menu » Students » Search For Student By Name
Main Menu » Students » Search For Student By Student Number
2. Find a supervisor by name or reference number
Main Menu » Supervisor » Search For Supervisor By Reference Number
Main Menu » Supervisor » Search For Supervisor By Name
3. Find a student who has a skill required by a research project
Main Menu » Students » Search For Student By Skill Required
4. Find a project by reference number or skill involved
Main Menu » Projects » Search Project By Reference Number
Main Menu » Projects » Search Projects By Skill Required

5. How many projects require programming skills? (use the count function)
Main Menu » Projects » Count Projects Requiring Programming Skill
6. Sort the projects according to the supervisors who are proposing them
Main Menu » Projects » All Projects: Sorted By Supervisor

Reports:

1. Supervisors sorted according to skills sought.
Main Menu » Supervisors » Supervisor Grouped By Skills Sought
2. Students sorted and grouped according to surname and town where they live.
Main Menu » Students » List Students: Group By Address, Sort By Surname.

Each sub menu page provides buttons to produce reports, search data with specific parameters etc. Some menus provide the option to list all entries. For example, on the Students sub menu page, there is a button labelled “List All Students: Report” Such lists are provided as a means to quickly view all records in the relevant table, as in this example the students table.

On each menu page however, there is also a button that offers the user the choice to open a form and browse entries individually in much more detail. This is where the user should look to browse entries and see related information in subforms, as well as being able to enter new data. The Form Browsing option which allows the user to do this is located to the bottom left of each menu page.