CM2102: Database Systems Coursework 1

1. Student number and Project ID are the two functional dependencies in this design. One assumption that I have made is that the student number field is unique to each student. Another assumption is that the project ID is unique for each project.

Supervisor Name

Project Report

Project Title

Proposer Name

Project Category

Moderator Name

Project ID

Degree Scheme

Student Number

Student Name



|  |  |  |
| --- | --- | --- |
| Student Number | Degree Scheme | Student Name |
| 0901202 | BSc CS | John Smith |
| 0934232 | BSc CS | Andy May |
| 0912436 | BSc CS | Alice Bell |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Project ID | Project Title | Supervisor Name | Proposer Name | Project Category |
| 456 | Computer Game | Wendy Bell | John Smith | Student |
| 457 | Flight Simulator | Alan Turing | Alan Turing | Staff |
| 457 | Flight Simulator | Alan Turing | Alan Turing | Staff |

|  |  |  |  |
| --- | --- | --- | --- |
| Project ID | Student Number | Project Report | Moderator name |
| 456 | 0901202 | To be submitted | David Jones |
| 457 | 0934232 | Distinction | Tom Lee |
| 457 | 0912436 | Merit | Mark Walker |

|  |  |
| --- | --- |
| Proposer name | Project category |
| David Jones | Student |
| Tom Lee | Staff |
| Mark Walker | Staff |

1. My design would support group final year projects. This is because the project report is dependent on both project ID and student number. This means that although multiple people have the same project ID, they will have different student numbers and therefore they can get different grades. This might work but it will cause redundancy as the table will repeat the project ID, project title, Supervisor name, proposer name and project category. This will be even worse for redundancy if the people get the same grade.