

## Data Dictionary

| Table           | Column       | Data Type     | Constraints  | Notes  |
|-----------------|--------------|---------------|--|--|
| Subject         | SubjCode     | NVARCHAR(100) | PK   | e.g. ICTWEB425   |
|                 | Description  | NVARCHAR(500) |  | Long description of the subject                              |
| Student         | StudentId    | NVARCHAR(10)  | PK   | e.g. s12345678   |
|                 | Surname      | NVARCHAR(100) | NOT NULL   | Students Surname   |
|                 | GivenName    | NVARCHAR(100) | NOT NULL   | Students Givenname   |
|                 | Gender       | NVARCHAR(1)   | CHECK IN ('M', 'F', 'I') (NULLABLE)  | Gender, must be one be of M, F, I or NULL                    |
| SubjectOffering | SubjCode     | NVARCHAR(100) | COMP PK<br>FK Ref Subject  | As Above   |
|                 | Year         | INT           | COMP PK<br>CHECK LENGTH = 4  | The Year the offering started in YYYY format e.g. 2011, 2012 |
|                 | Semester     | INT           | COMP PK<br>CHECK in (1,2)  | The semester the subject is offered in e.g. 1                |
|                 | Fee          | MONEY         | NOT NULL, CHECK > 0  | The fee for students to enrol in that subject offering       |
|                 | StaffID      | INT           | FK REF TEACHER<br>NULLABLE   | See for Teacher table  |
| Enrolment       | StudentId    | NVARCHAR(10)  | COMP PK,<br>FK REF Student   | As Above   |
|                 | SubjCode     | NVARCHAR(100) | COMP PK<br>COMP FK REF SUBJECTOFFERING   | As Above   |
|                 | Year         | INT           | COMP PK<br>CHECK LENGTH = 4<br>COMP FK REF SUBJECTOFFERING                                     | As Above   |
|                 | Semester     | INT           | COMP PK<br>CHECK in (1,2)<br>COMP FK REF SUBJECTOFFERING                                       | As Above   |
|                 | Grade        | NVARCHAR(2)   | CHECK in ('N', 'P', 'C', 'D', 'HD')<br>NULLABLE<br>DEFAULTS TO NULL WHEN<br>ENROLLMENT CREATED | The grade achieved in that subject offering                  |
|                 | DateEnrolled | DATE          |  | The date the student enrolled                                |
| Teacher         | StaffID      | INT           | PK<br>CHECK LENGTH = 8   | e.g. 12345678  |
|                 | Surname      | NVARCHAR(100) | NOT NULL   | Teachers Surname   |
|                 | GivenName    | NVARCHAR(100) | NOT NULL   | Teachers Given Name  |

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