<https://www.w3schools.com/sql/sql_datatypes.asp>

Field Definition grid for Attributes of Entity ‘Student’

**Entity name**: Student **Description**: Entity representing the university student of a module.

**Synonyms**: None **Relationship Link Phrases**: Student can belong to multiple Modules.

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| **Attribute name** | **Description** | **Synonym(s)** | **Data type** | **Size**  **(\*=max)** | **Possible data values** | **Optional?** | **Validation rules** | **Key?** |
| Student Reg. No. | Unique ID to identify a specific university student. | Student No. | numeric | 9999999999\* | 0000000000 to 99999999999 | NO | 10 numeric digits; must not be negative | PK |
| Student Name | First and second names. |  | varchar | 70\* | Any | NO | Must have at least one forename and one surname; capitalisation of first character. | No |
| Student Title | e.g. Mr, Miss… |  | varchar | 10\* | As per Lookup Table | YES |  | No |
| Address Dwelling | House/flat number |  | varchar | 20\* | Any | NO | Convert to title case; must be alpha | No |
| Address Street |  |  | varchar | 20\* | Any | NO | Convert to title case; must be alpha-numeric | No |
| Address Town |  |  | varchar | 20\* | Any | YES | Must have at least town or country; convert to uppercase; must be alpha. | No |
| Address Country |  |  | varchar | 20\* | As per Lookup Table | YES | Must have at least town or country; must be alpha | No |
| ZIP Code |  | Post Code | varchar | 8 | Any | YES | Must be alpha-numeric | No |
| Date of birth |  | D.O.B. | date |  | 1880 to present | YES |  | No |
| Enrolled | Has the student completed enrolment |  | bit | 1 | 0 or 1 | YES | Must be either 0 (not enrolled) or 1 (enrolled) | No |

Field Definition grid for Attributes of Entity ‘Module’

**Entity name**: Module **Description**: Entity representing the module of a university course.

**Synonyms**: None **Relationship Link Phrases**: Module can belong to multiple students; module can belong to one module leader.

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| **Attribute name** | **Description** | **Synonym(s)** | **Data type** | **Size**  **(\*=max)** | **Possible data values** | **Optional?** | **Validation rules** | **Key?** |
| Module Code | Unique ID to identify a specific course module. |  | varchar | \*8 | As per Lookup table (upper case) | NO | First 3-4 characters alpha; remaining characters numeric | PK |
| Module Title |  | Module Name | varchar | \*25 | Any | NO | Convert to title case | No |
| Module Leader |  |  | varchar | \*70 | Any | NO | Convert to title case | FK |
| Start Date |  |  | date |  | Date within the last or next 365 days | YES |  | No |
| Faculty |  | School | varchar | \*25 | As per Lookup Table | NO |  | No |
| Credit Weighting |  |  | tinyint | \*2 | 0-99 | NO | Integer greater than or equal to 0; integer less than 100 | No |

Field Definition grid for Attributes of Entity ‘Module Leader’

**Entity name**: Module Leader **Description**: Entity representing the leading staff member for a module.

**Synonyms**: None **Relationship Link Phrases**: Module Leader can belong to multiple modules. Module can only have one Module Leader.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Description** | **Synonym(s)** | **Data type** | **Size**  **(\*=max)** | **Possible data values** | **Optional?** | **Validation rules** | **Key?** |
| Module Leader |  |  | varchar | 70\* | Any | NO | Must be alpha | PK |
| Office |  |  | varchar | 10\* | Any | NO | Must be alpha-numeric | No |
| Mobile Number | UK mobile number beginning with +44. |  | varchar | 13\* | +44[0000000000 to 9999999999] | NO | Must be alpha-numeric; must begin with ‘+44’ | No |
| Module Leader Title | e.g. Mr, Mis… |  | varchar | 10\* | As per Lookup Table | NO | Must be alpha | No |
| Address Dwelling |  |  | varchar | 20\* | Any | NO | Convert to title case | No |
| Address Street |  |  | varchar | 20\* | Any | NO | Convert to title case; must be alpha | No |
| Address Town |  |  | varchar | 20\* | Any | YES | Convert to uppercase | No |
| Address Country |  |  | varchar | 20\* | Any | YES | Must have at least town or country; must be alpha | No |
| Post Code |  |  | varchar | 8 | Valid UK postcode | YES | Must be alpha-numeric | No |