Pass Task 5.1.1

**Table – Students**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Reason** |
| stud\_id | AutoNumber(10) or (Int Unsigned) | AutoNumber ID |
| stud\_name | Varchar(30) | Names rarely change, therefore saves space |
| stud\_phone | Char(11) | + 6 1 4 1 2 3 4 5 6 7 8 (Only uses 11 characters) No need for operations, thus char |
| stud\_dob | Date | Date |
| stud\_city | Char(30) | Cities can change |
| stud\_address | Char(100) | Locations can change |
| stud\_postcode | Number(4) or SmallInt(unsigned) | Operations conducted on them |

**Table – Subject**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Reason** |
| subj\_code | Char(6) | A B C 1 2 3 |
| subj\_title | Varchar(30) | Rarely changes, can be long thus saves space |

**Table – Subj\_Enrolment**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Reason** |
| stud\_id | AutoNumber(10) or (Int Unsigned) | AutoNumber ID |
| subj\_code | Char(6) | A B C 1 2 3 |
| semester | Int(1) | Semester 1 or 2 |
| year | Int(4) | Value between 1900 and 2100 |
| comment | Varchar(100) | Unlikely to change, thus saves space |

**Table – Grade**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Reason** |
| stud\_id | AutoNumber(10) or (Int Unsigned) | AutoNumber ID |
| subj\_code | Char(6) | A B C 1 2 3 |
| semester | Int(1) | Semester 1 or 2 |
| year | Int(4) | Value between 1900 and 2100 |
| grade | Char(2) | Char(1) if majority of students are poor achievers |