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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Student table (StudNo, StudID, Forename, Surname, Year, Form, Email, PhoneNO) | | | | | | | | | |
| Field name | Data type | Length (bytes) | Format | Validation | Purpose | | coments | | Example data |
| Stud NO. | Short | 2 | 0000 |  | Primary key | |  | | 0011 |
| Stud ID. | Integer | 4 | 000000 | Must be a number of 6 characters | To store the id of the student for outputs | |  | | 112544 |
| Forename | String | 60 | xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx | Must contain no non-letter or hyphen characters | To store the name of the student for outputs | |  | | Jason |
| Surname | String | 60 | xxxxxxxxxx xxxxxxxxxx xxxxxxxxxx | Must contain no non-letter or hyphen characters | To store the name of the student for outputs | |  | | Scott |
| Year | byte | 1 | 00 | Must be between 12 and 15 | Purpose to help divide between the years which will have separate consultation evenings | |  | | 13 |
|  | | | | | | | | | |
| Teacher table (StaffNO, Forename, Surname, Email, Admin) | | | | | | | | | |
| Field name | Data type | Length (bytes) | Format | Validation | Purpose | coments | | Example data | |
| Staff NO | short | 2 | 000 |  | Primary key |  | | 032 | |
| Forename | string | 60 | xxxxxxxxxx  xxxxxxxxxx  xxxxxxxxxx | Must only contain hyphens and letter characters | To store the teachers name for outputs |  | | Jane | |
| Surname | string | 60 | xxxxxxxxxx  xxxxxxxxxx  xxxxxxxxxx | Must only contain hyphens and letter characters | To store the teachers name for outputs |  | | Law | |
| Admin | Boolean | 2 | True/false |  | To decide weather the teacher will have access to the admin area |  | | true | |
|  | | | | | | | | | |
| Stud av table (Appointment, *StudNO*, *Day*, Available) | | | | | | | | | |
| Field name | Data type | Length (bytes) | Format | Validation | Purpose | coments | | Example data | |
| appointment | byte | 1 | 000 | Must be in staff av table | Primary key |  | | 12 | |
| Stud NO. | Short | 2 | 0000 |  | Primary key / Foreign key |  | | 0011 | |
| Day | Byte | 1 | 00 |  | Primary key / Foreign key |  | | 1 | |
| Block | Byte | 1 | 0 |  | To store which block the student is available for |  | | 1 | |
| Available | Boolean | 2 | True / False |  | to store whether the student is available |  | | True | |
|  | | | | | | | | | |
| Staff av table (Appointment, *StaffNO*, *Day*, available) | | | | | | | | | |
| Field name | Data type | Length (bytes) | Format | Validation | Purpose | coments | | Example data | |
| Appointment | Byte | 1 | 000 | Must be in stud av table | Primary key |  | | 001 | |
| Staff no. | Short | 2 | 000 |  | Primary / Foreign key |  | | 0012 | |
| day | Byte | 1 | 00 |  | Primary / foreign key |  | | 01 | |
| Block | Byte | 1 | 0 |  | To store which block the staff member is available for |  | | 1 | |
| available | Boolean | 2 | True/False |  | Store weather or not they are able to do that appointment |  | | false | |
|  | | | | | | | | | |
| Day table (Day, Start, End, length) | | | | | | | | | |
| Field name | Data type | Length (bytes) | Format | Validation | Purpose | coments | | Example data | |
| Day | byte | 1 | 00 |  | Primary key |  | | 03 | |
| Start | Date |  | hh/mm |  | Records the start time |  | | 0600 | |
| End | Date |  | hh/mm | Must be atleast an hour and a half after start | Records the end time |  | | 0830 | |
| Length | byte | 1 | 5|10 | It will be from a selection of 5 to 10 mins | It is used to work out how many appointments. If 5 1 hour blocks and if 10 an hour and a half | There will be a drop down | | 10 | |
|  | | | | | | | | | |
| Appointments table (*Day*, *LessonNO*, appointment) | | | | | | | | | |
| Field name | Data type | Length (bytes) | Format | Validation | Purpose | coments | | Example data | |
| Day | Byte | 1 | 00 |  | Primary key / Foreign key |  | | 01 | |
| Lesson NO. | Short | 2 | 0000 |  | Primary key / Foreign key |  | | 0456 | |
| appointment | byte | 2 | 0000 | Must when multiplied by the appointment length be within the start to end time. | Stores the time as the slot |  | | 0023 | |
|  | | | | | | | | | |
| Lesson table (LessonNO, *StudNO, StaffNO*) | | | | | | | | | |
| Field name | Data type | Length (bytes) | Format | Validation | Purpose | comments | | Example data | |
| Lesson NO. | Short | 2 | 0000 |  | Primary key |  | | 0124 | |
| Stud NO. | Short | 2 | 0000 |  | Foreign key |  | | 0011 | |
| Staff NO. | Short | 2 | 0000 |  | Foreign key |  | | 024 | |
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