**MUSIC SCHOOL DATABASE TABLE DESIGN**

**(Bold & underlined column represents primary key & italics represents foreign key. Highlighted columns represent a value that CAN be NULL. (AI) means Auto-Increment. For further SQL datatype definitions, see** [**http://www.w3schools.com/sql/sql\_datatypes.asp**](http://www.w3schools.com/sql/sql_datatypes.asp)**).**

**THERE ARE NO SPACES. IF YOU CAN’T SEE THE UNDERSCORE DUE TO AN UNDERLINE…. IT’S THERE!**

**Schema Name:** music\_school

**students:** {**id (INT)(AI)**, first\_name (VARCHAR(45)), middle\_name (VARCHAR(45)), last\_name (VARCHAR(45)), dob (DATE), address (VARCHAR(90)), phone\_no (VARCHAR(45)), email (VARCHAR(90))(Unique), *password\_Id (INT)*, is\_dormant (BOOLEAN), date\_registered (DATE)};

**student\_experience:** {***student\_id (INT)***, ***inst\_type\_id (VARCHAR(45))***, grade (INT)};

**student\_availability:** {***student\_id (INT)***, **day (VARCHAR(45))**, **start\_time (TIME)**, **end\_time (TIME)**};

**parents:** {**id (INT)(AI)**, first\_name (VARCHAR(45)), middle\_name (VARCHAR(45)), last\_name (VARCHAR(45)), dob (DATE), address (VARCHAR(90)), phone\_no (VARCHAR(45)), email (VARCHAR(90))(Unique), *password\_id (INT)*, is\_dormant (BOOLEAN), date\_registered (DATE)};

**parent\_relationships:** {***parent\_id (INT)***, ***student\_id (INT)****,* relation\_to\_student (VARCHAR(45))};

**employment\_types:** {**id (INT)(AI)**, employment\_type (VARCHAR(45))};

**teacher\_applicants:** {**id (INT)(AI)**, first\_name (VARCHAR(45)), last\_name (VARCHAR(45)), phone\_no (VARCHAR(45)), email (VARCHAR(90))(Unique), date\_applied (DATE), *password\_id (INT)*, *status\_id (INT)*, is\_shortlisted (BOOLEAN), is\_approved (BOOLEAN), approved\_date (DATE), *approvedbymanager\_id (INT),* cover\_letter (TEXT), hours (INT)};

**teacher\_applicant\_references:** {***teacher\_applicant\_id (INT), name (VARCHAR(90)), phone\_number (INT)***};

**teacher\_applicant\_experience:** {***teacher\_applicant\_id (INT), instrument (VARCHAR(45)), grade (INT)***};

**teacher\_applicant\_languages:** {***applicant\_id (INT), language\_id(INT)***};

**teachers:** {**id (INT)(AI)**, first\_name (VARCHAR(45)), middle\_name (VARCHAR(45)), last\_name (VARCHAR(45)), dob (DATE), address (VARCHAR(90)), email (VARCHAR(90))(Unique), *password\_id (INT),* date\_employed (DATE), ldate\_terminated (DATE), is\_terminated (BOOLEAN), staff\_description (VARCHAR(200))};

**teacher\_experience:** {***teacher\_id (INT)***, ***inst\_type\_id (VARCHAR(45))***, grade (INT), exp\_description (VARCHAR(200))};

**teacher\_languages:** {***teacher\_id (INT), language\_id(INT)***};

**teacher\_availability**: {***teacher\_id (INT)***, **day (VARCHAR(45))**, **start\_time (TIME)**, **end\_time (TIME)**};

**teacher\_contracts:** {**id (INT)(AI)**, *teacher\_id (INT)*, *employment\_type\_id (INT)*, salary (DECIMAL), pay\_rate (DECIMAL), weekly\_hours (INT), contract\_notes (VARCHAR(200))};  **----- Constraint where only one of salary or pay\_rate can be left NULL.**

**teacher\_change\_requests:** {**id (INT)(AI)**, *student\_id (INT)*, *teacher\_id (INT), lesson\_id (INT),* request\_date (DATE), *request\_status\_id (INT)*, approved\_date (DATE), *approvedbymanager\_id (INT)*, request\_notes (VARCHAR(120))};

**managers**: {**id (INT)(AI)**, first\_name (VARCHAR(45)), middle\_name (VARCHAR(45)), last\_name (VARCHAR(45)), dob (DATE), address (VARCHAR(90)), email (VARCHAR(90))(Unique), date\_employed (DATE), *password\_id (INT)*, date\_terminated (DATE), is\_terminated (BOOLEAN), staff\_description (VARCHAR(200))};

**manager\_contracts:** {**id (INT)(AI)**, *manager\_id (INT)*, employment\_type\_id (INT), salary (DECIMAL), pay\_rate (DECIMAL), weekly\_hours (INT), contract\_notes (VARCHAR(200))};  **----- Constraint where only one of salary or pay\_rate can be left NULL.**

**instruments:** {**id (INT)(AI**), *inst\_type\_id (INT)*, serial\_no (VARCHAR(45))(Unique), *condition\_id (INT)*, purchase\_date (DATE), purchase\_price (DECIMAL), model (VARCHAR(150)), hire\_fee (DECIMAL), inst\_notes (VARCHAR(150)), is\_sold\_or\_disposed (BOOLEAN)};

**conditions:** {**id (INT)(AI)**, condition (VARCHAR(150))};

**request\_status:** {**id (INT)(AI)**, status (VARCHAR(90))};

**instrument\_types:** {**id (INT)(AI)**, name (VARCHAR(45)), lesson\_fee (DECIMAL)};

**instrument\_hire:** {**id (INT)(AI)**, *instrument\_id (INT)*, *student\_id (INT)*, request\_date (DATE), *hire\_status\_id (INT),* hire\_date (DATE), due\_date (DATE), return\_date (DATE), is\_returned (BOOLEAN)};

**lessons:** {**id (INT)(AI)**, *student\_id (INT)*, *inst\_type\_id (INT), teacher\_id (INT), room\_no (INT),* lesson\_start\_time (TIME), lesson\_end\_time (TIME), lesson\_day (VARCHAR(45)), lesson\_year (INT), lesson\_term (INT), lesson\_fee (DECIMAL), request\_date (DATE), accept\_date (DATE), lesson\_notes (VARCHAR(150))};

**lesson\_rejections:** {***lesson\_id (INT)***, ***teacher\_id (INT)***};

**cancelled\_lessons:** {***lesson\_id (INT)***, date\_cancelled (DATE), cancelled\_by\_teacher (BOOLEAN)};

**rooms:** {**room\_no (INT)**, name (VARCHAR(90)), is\_available (BOOLEAN)};

**passwords:** {**id (INT)(AI)**, salt (VARCHAR(45)), password (VARCHAR(120))};

**reports:** {**id (INT)(AI)**, name (VARCHAR(45)), display\_name (CHAR(45))};

**languages:** {**id (INT)(AI)**, language (VARCHAR(45))};

**teacher\_languages:** {***teacher\_id (INT)(AI)****,* ***language\_id (INT)***};

**teacher\_applicant\_languages:** {***applicant\_id (INT)(AI)****,* ***language\_id (INT)***};