-- studentmanagement.staff definition

CREATE TABLE `staff` (

`UserID` varchar(10) NOT NULL,

`UserPassword` varchar(100) DEFAULT NULL,

`FName` varchar(50) NOT NULL,

`LName` varchar(50) NOT NULL,

`Email` varchar(100) NOT NULL,

`Address` varchar(255) DEFAULT NULL,

`Telephone` varchar(20) DEFAULT NULL,

`JoinedDate` date DEFAULT NULL,

`Position` enum('Administrator','Lecturer') DEFAULT 'Lecturer',

`Faculty` varchar(100) DEFAULT NULL,

`Timetable` mediumtext,

PRIMARY KEY (`UserID`),

UNIQUE KEY `Email` (`Email`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.programme definition

CREATE TABLE `programme` (

`ProgrammeCode` varchar(10) NOT NULL,

`Title` varchar(100) NOT NULL,

`Duration` varchar(10) DEFAULT NULL,

PRIMARY KEY (`ProgrammeCode`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.student definition

CREATE TABLE `student` (

`UserID` varchar(10) NOT NULL,

`UserPassword` varchar(100) DEFAULT NULL,

`FName` varchar(50) NOT NULL,

`LName` varchar(50) NOT NULL,

`Email` varchar(100) NOT NULL,

`Address` varchar(255) DEFAULT NULL,

`Telephone` varchar(20) DEFAULT NULL,

`JoinedDate` date DEFAULT NULL,

`Tutor` varchar(10) DEFAULT NULL,

`Timetable` mediumtext,

`AcademicHistory` text DEFAULT NULL,

`ProgrammeCode` varchar(10) CHARACTER SET utf8mb4 COLLATE utf8mb4\_0900\_ai\_ci DEFAULT NULL,

PRIMARY KEY (`UserID`),

UNIQUE KEY `Email` (`Email`),

KEY `student\_programme\_FK` (`ProgrammeCode`),

KEY `student\_ibfk\_1` (`Tutor`),

CONSTRAINT `student\_ibfk\_1` FOREIGN KEY (`Tutor`) REFERENCES `staff` (`UserID`) ON DELETE SET NULL ON UPDATE CASCADE,

CONSTRAINT `student\_programme\_FK` FOREIGN KEY (`ProgrammeCode`) REFERENCES `programme` (`ProgrammeCode`) ON DELETE SET NULL ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.module definition

CREATE TABLE `module` (

`ModuleCode` varchar(10) NOT NULL,

`Title` varchar(255) NOT NULL,

`Timetable` mediumtext,

PRIMARY KEY (`ModuleCode`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.grade definition

CREATE TABLE `grade` (

`StudentID` varchar(10) NOT NULL,

`ModuleID` varchar(10) NOT NULL,

`Grade` smallint unsigned DEFAULT NULL,

PRIMARY KEY (`StudentID`,`ModuleID`),

KEY `grade\_module\_fk` (`ModuleID`),

CONSTRAINT `grade\_module\_fk` FOREIGN KEY (`ModuleID`) REFERENCES `module` (`ModuleCode`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `grade\_student\_fk` FOREIGN KEY (`StudentID`) REFERENCES `student` (`UserID`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

CREATE TABLE `teaching` (

`StaffID` varchar(10) NOT NULL,

`ModuleCode` varchar(10) NOT NULL,

PRIMARY KEY (`StaffID`,`ModuleCode`),

KEY `teaching\_module\_fk` (`ModuleCode`),

CONSTRAINT `teaching\_module\_fk` FOREIGN KEY (`ModuleCode`) REFERENCES `module` (`ModuleCode`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `teaching\_staff\_fk` FOREIGN KEY (`StaffID`) REFERENCES `staff` (`UserID`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.announcement definition

CREATE TABLE `announcement` (

`ModuleCode` varchar(10) CHARACTER SET utf8mb4 COLLATE utf8mb4\_0900\_ai\_ci NOT NULL,

`Content` text CHARACTER SET utf8mb4 COLLATE utf8mb4\_0900\_ai\_ci NOT NULL,

`SubmitTime` timestamp NOT NULL,

PRIMARY KEY (`ModuleCode`,`SubmitTime`),

CONSTRAINT `announcement\_module\_fk` FOREIGN KEY (`ModuleCode`) REFERENCES `module` (`ModuleCode`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.coursework definition

CREATE TABLE `coursework` (

`AssessmentID` varchar(20) NOT NULL,

`Title` varchar(255) NOT NULL,

`Deadline` timestamp NULL DEFAULT NULL,

`ModuleCode` varchar(10) NOT NULL,

`Grade` smallint unsigned DEFAULT NULL,

`Feedback` text,

`FilePath` varchar(200) DEFAULT NULL,

`StudentID` varchar(10) NOT NULL,

PRIMARY KEY (`AssessmentID`),

KEY `coursework\_module\_FK` (`ModuleCode`),

KEY `coursework\_student\_fk` (`StudentID`),

CONSTRAINT `coursework\_module\_FK` FOREIGN KEY (`ModuleCode`) REFERENCES `module` (`ModuleCode`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `coursework\_student\_fk` FOREIGN KEY (`StudentID`) REFERENCES `student` (`UserID`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `coursework\_chk\_1` CHECK (((`Grade` >= 0) and (`Grade` <= 100)))

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.exam definition

CREATE TABLE `exam` (

`AssessmentID` varchar(100) NOT NULL,

`Title` varchar(255) NOT NULL,

`Location` varchar(100) DEFAULT NULL,

`StartTime` timestamp NULL DEFAULT NULL,

`EndTime` timestamp NULL DEFAULT NULL,

`ModuleCode` varchar(10) CHARACTER SET utf8mb4 COLLATE utf8mb4\_0900\_ai\_ci NOT NULL,

`grade` smallint unsigned DEFAULT NULL,

`StudentID` varchar(10) CHARACTER SET utf8mb4 COLLATE utf8mb4\_0900\_ai\_ci NOT NULL,

PRIMARY KEY (`AssessmentID`),

KEY `exam\_module\_fk` (`ModuleCode`),

KEY `exam\_student\_fk` (`StudentID`),

CONSTRAINT `exam\_module\_fk` FOREIGN KEY (`ModuleCode`) REFERENCES `module` (`ModuleCode`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `exam\_student\_fk` FOREIGN KEY (`StudentID`) REFERENCES `student` (`UserID`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

-- studentmanagement.absence definition

CREATE TABLE `absence` (

`RequestID` int NOT NULL,

`Student` varchar(10) DEFAULT NULL,

`Status` varchar(50) DEFAULT NULL,

`Justification` varchar(300) DEFAULT NULL,

`StartTime` timestamp NOT NULL,

`EndTime` timestamp NOT NULL,

`description` text,

PRIMARY KEY (`RequestID`),

KEY `Student` (`Student`),

CONSTRAINT `absence\_ibfk\_1` FOREIGN KEY (`Student`) REFERENCES `student` (`UserID`)

) ENGINE=InnoDB;

-- studentmanagement.tutormeeting definition

CREATE TABLE `tutormeeting` (

`RequestID` int NOT NULL,

`Student` varchar(10) DEFAULT NULL,

`Status` varchar(50) DEFAULT NULL,

`StartTime` timestamp NOT NULL,

`EndTime` timestamp NOT NULL,

PRIMARY KEY (`RequestID`),

KEY `Student` (`Student`),

CONSTRAINT `tutormeeting\_ibfk\_2` FOREIGN KEY (`Student`) REFERENCES `student` (`UserID`)

) ENGINE=InnoDB;

-- studentmanagement.extension definition

CREATE TABLE `extension` (

`RequestID` int NOT NULL,

`Student` varchar(10) NOT NULL,

`StartDate` date NOT NULL,

`EndDate` date NOT NULL,

`Description` text,

`ModuleCode` varchar(10) NOT NULL,

`Justification` varchar(100) NOT NULL,

UNIQUE KEY `PRIMARY KEY` (`RequestID`) USING BTREE,

KEY `extensionrequests\_student\_FK` (`Student`),

KEY `extensionrequests\_module\_FK` (`ModuleCode`),

CONSTRAINT `extensionrequests\_module\_FK` FOREIGN KEY (`ModuleCode`) REFERENCES `module` (`ModuleCode`),

CONSTRAINT `extensionrequests\_student\_FK` FOREIGN KEY (`Student`) REFERENCES `student` (`UserID`)

) ENGINE=InnoDB;