**Tables:**

|  |  |
| --- | --- |
| **Table Name** | **Table Values** |
| award | **awardID** (INT(AUTO-INCREMENTED), **regionID** (INT), **type** (STRING (64 char max)), **recipientName**(String (64 char max)), **recipientEmail**(STRING (64 char max)), **timestamp** (DATETIME), **creatorID** (INT); |
| region | **regionID** (INT (AUTO-INCREMENTED)), **name**(STRING (64 char max)) |
| signature | **signatureID** (INT (AUTO-INCREMENTED)), **signatureImage**(varbinary(8000)) |
| user | **userID** (INT (AUTO-INCREMENTED)), **firstName** (STRING (64 char max)), **lastName** (STRING (64 char max)),  **email** (STRING (64 char max)), **userTypeID** (INT),  **password** (STRING (64 char max)), **createdOn (**DATETIME), **createdBy** (INT),  **signatureID** (int), **timestamp** (DATETIME) |
| userType | **userTypeID** (INT(AUTO-INCREMENTED)), **description** (STRING (64 char max)) |

**Creation Scripts:**

award:   
  
CREATE TABLE `award` (  
 `awardID` int(10) unsigned NOT NULL AUTO\_INCREMENT,  
 `regionID` int(10) unsigned NOT NULL,  
 `type` varchar(64) COLLATE utf8\_unicode\_ci DEFAULT NULL,  
 `recipientName` varchar(64) COLLATE utf8\_unicode\_ci DEFAULT NULL,  
 `recipientEmail` varchar(64) COLLATE utf8\_unicode\_ci DEFAULT NULL,  
 `timestamp` datetime DEFAULT NULL,  
 `creatorID` int(10) unsigned NOT NULL,  
 PRIMARY KEY (`awardID`),  
 KEY `regionID` (`regionID`),  
 KEY `creatorID` (`creatorID`),  
 CONSTRAINT `award\_ibfk\_1` FOREIGN KEY (`regionID`) REFERENCES `region` (`regionid`),  
 CONSTRAINT `award\_ibfk\_2` FOREIGN KEY (`creatorID`) REFERENCES `user` (`userid`)  
) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci   
  
  
region:   
  
CREATE TABLE `region` (  
 `regionID` int(10) unsigned NOT NULL AUTO\_INCREMENT,  
 `name` varchar(64) COLLATE utf8\_unicode\_ci NOT NULL,  
 PRIMARY KEY (`regionID`),  
 UNIQUE KEY `regionID` (`regionID`)  
) ENGINE=InnoDB AUTO\_INCREMENT=7 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci

signature:   
  
CREATE TABLE `signature` (  
 `signatureID` int(10) unsigned NOT NULL AUTO\_INCREMENT,  
 `signatureImage` varbinary(8000) DEFAULT NULL,  
 PRIMARY KEY (`signatureID`)  
) ENGINE=InnoDB AUTO\_INCREMENT=2 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci  
  
  
user:  
  
CREATE TABLE `user` (  
 `userID` int(10) unsigned NOT NULL AUTO\_INCREMENT,  
 `firstName` varchar(64) COLLATE utf8\_unicode\_ci NOT NULL,  
 `lastName` varchar(64) COLLATE utf8\_unicode\_ci NOT NULL,  
 `email` varchar(64) COLLATE utf8\_unicode\_ci DEFAULT NULL,  
 `userTypeID` int(10) unsigned NOT NULL,  
 `password` varchar(64) COLLATE utf8\_unicode\_ci NOT NULL,  
 `createdOn` datetime DEFAULT NULL,  
 `createdBy` int(10) unsigned NOT NULL,  
 `signatureID` int(10) unsigned DEFAULT NULL,  
 `timestamp` datetime DEFAULT NULL,  
 PRIMARY KEY (`userID`),  
 KEY `userTypeID` (`userTypeID`),  
 KEY `signatureID` (`signatureID`),  
 KEY `createdBy` (`createdBy`),  
 CONSTRAINT `user\_ibfk\_1` FOREIGN KEY (`userTypeID`) REFERENCES `userType` (`usertypeid`),  
 CONSTRAINT `user\_ibfk\_2` FOREIGN KEY (`signatureID`) REFERENCES `signature` (`signatureid`),  
 CONSTRAINT `user\_ibfk\_3` FOREIGN KEY (`createdBy`) REFERENCES `user` (`userid`)  
) ENGINE=InnoDB AUTO\_INCREMENT=15 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci  
  
  
userType:   
  
CREATE TABLE `userType` (  
 `userTypeID` int(10) unsigned NOT NULL AUTO\_INCREMENT,  
 `description` varchar(64) COLLATE utf8\_unicode\_ci DEFAULT NULL,  
 PRIMARY KEY (`userTypeID`)  
) ENGINE=InnoDB AUTO\_INCREMENT=3 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci  
 **Inserting a new user into the database:**  
  
INSERT INTO user (  
 firstName, lastName, email, userTypeID, password, createdOn, createdBy, signatureID,   
 timestamp)  
 VALUES (  
 ‘Robert’, ‘Fletcher’, ‘testemail@test.com’, 1, ‘TestPassword’, CURRENT\_TIMESTAMP,   
 1, NULL, CURRENT\_TIMESTAMP);  
  
  
**Updating an existing user in the database:**UPDATE user  
 SET lastName = ‘SomeNewName’,  
 timestamp = CURRENT\_TIMESTAMP  
 WHERE userID = 1;  
  
  
**Selecting a user’s name from the database based on their ID:**SELECT firstName, lastName FROM user  
 WHERE userID = 1;  
  
  
**Adding a signature (two-step process):**