CREATE TABLE `administrator` (

`username` varchar(50) NOT NULL,

PRIMARY KEY (`username`),

CONSTRAINT `administrator\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `employee` (`username`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `assign\_to` (

`staff\_username` varchar(50) NOT NULL,

`event\_name` varchar(50) NOT NULL,

`start\_date` date NOT NULL,

`site\_name` varchar(50) NOT NULL,

PRIMARY KEY (`staff\_username`,`event\_name`,`start\_date`,`site\_name`),

KEY `event\_name` (`event\_name`,`start\_date`,`site\_name`),

CONSTRAINT `assign\_to\_ibfk\_1` FOREIGN KEY (`staff\_username`) REFERENCES `staff` (`username`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `assign\_to\_ibfk\_2` FOREIGN KEY (`event\_name`, `start\_date`, `site\_name`) REFERENCES `event` (`event\_name`, `start\_date`, `site\_name`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `connect` (

`site\_name` varchar(50) NOT NULL,

`transit\_type` varchar(50) NOT NULL,

`transit\_route` varchar(50) NOT NULL,

PRIMARY KEY (`site\_name`,`transit\_type`,`transit\_route`),

KEY `transit\_type` (`transit\_type`,`transit\_route`),

CONSTRAINT `connect\_ibfk\_1` FOREIGN KEY (`site\_name`) REFERENCES `site` (`site\_name`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `connect\_ibfk\_2` FOREIGN KEY (`transit\_type`, `transit\_route`) REFERENCES `transit` (`transit\_type`, `transit\_route`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `employee` (

`username` varchar(50) NOT NULL,

`employee\_id` bigint(20) DEFAULT NULL,

`phone` varchar(50) NOT NULL,

`address` varchar(50) NOT NULL,

`city` varchar(50) NOT NULL,

`state` varchar(50) NOT NULL,

`zipcode` varchar(50) NOT NULL,

PRIMARY KEY (`username`),

UNIQUE KEY `phone` (`phone`),

UNIQUE KEY `employeeid` (`employee\_id`),

UNIQUE KEY `employee\_id` (`employee\_id`),

UNIQUE KEY `employee\_id\_2` (`employee\_id`),

CONSTRAINT `employee\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `user` (`username`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `event` (

`event\_name` varchar(50) NOT NULL,

`start\_date` date NOT NULL,

`site\_name` varchar(50) NOT NULL,

`min\_staff\_req` int(10) unsigned NOT NULL,

`description` text NOT NULL,

`capacity` int(10) unsigned NOT NULL,

`price` decimal(8,2) NOT NULL,

`end\_date` date NOT NULL,

PRIMARY KEY (`event\_name`,`start\_date`,`site\_name`),

KEY `site\_name` (`site\_name`),

CONSTRAINT `event\_ibfk\_1` FOREIGN KEY (`site\_name`) REFERENCES `site` (`site\_name`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `manager` (

`username` varchar(50) NOT NULL,

PRIMARY KEY (`username`),

CONSTRAINT `manager\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `employee` (`username`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `site` (

`site\_name` varchar(50) NOT NULL,

`manager\_username` varchar(50) NOT NULL,

`zipcode` varchar(50) NOT NULL,

`address` varchar(50) NOT NULL,

`open\_everyday` tinyint(1) NOT NULL,

PRIMARY KEY (`site\_name`),

UNIQUE KEY `site\_name` (`site\_name`),

KEY `manager\_username` (`manager\_username`),

CONSTRAINT `site\_ibfk\_1` FOREIGN KEY (`manager\_username`) REFERENCES `manager` (`username`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `staff` (

`username` varchar(50) NOT NULL,

PRIMARY KEY (`username`),

CONSTRAINT `staff\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `employee` (`username`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `take\_transit` (

`username` varchar(50) NOT NULL,

`transit\_type` varchar(50) NOT NULL,

`transit\_route` varchar(50) NOT NULL,

`transit\_date` date NOT NULL,

PRIMARY KEY (`username`,`transit\_type`,`transit\_route`,`transit\_date`),

KEY `transit\_type` (`transit\_type`,`transit\_route`),

CONSTRAINT `take\_transit\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `user` (`username`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `take\_transit\_ibfk\_2` FOREIGN KEY (`transit\_type`, `transit\_route`) REFERENCES `transit` (`transit\_type`, `transit\_route`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `transit` (

`transit\_type` varchar(50) NOT NULL,

`transit\_route` varchar(50) NOT NULL,

`transit\_price` decimal(6,2) unsigned NOT NULL,

PRIMARY KEY (`transit\_type`,`transit\_route`)

)

CREATE TABLE `user` (

`username` varchar(50) NOT NULL,

`firstname` varchar(50) NOT NULL,

`lastname` varchar(50) NOT NULL,

`status` varchar(50) NOT NULL,

`password` varchar(200) NOT NULL,

PRIMARY KEY (`username`),

UNIQUE KEY `username` (`username`)

)

CREATE TABLE `user\_email` (

`username` varchar(50) NOT NULL,

`email` varchar(50) NOT NULL,

PRIMARY KEY (`email`),

UNIQUE KEY `email` (`email`),

KEY `username` (`username`),

CONSTRAINT `user\_email\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `user` (`username`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `visit\_event` (

`visitor\_username` varchar(50) NOT NULL,

`event\_name` varchar(50) NOT NULL,

`start\_date` date NOT NULL,

`site\_name` varchar(50) NOT NULL,

`visit\_event\_date` date NOT NULL,

PRIMARY KEY (`visit\_event\_date`,`visitor\_username`,`site\_name`,`event\_name`,`start\_date`),

KEY `visitor\_username` (`visitor\_username`),

KEY `event\_name` (`event\_name`,`start\_date`,`site\_name`),

CONSTRAINT `visit\_event\_ibfk\_1` FOREIGN KEY (`visitor\_username`) REFERENCES `user` (`username`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `visit\_event\_ibfk\_2` FOREIGN KEY (`event\_name`, `start\_date`, `site\_name`) REFERENCES `event` (`event\_name`, `start\_date`, `site\_name`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `visitor` (

`username` varchar(50) NOT NULL,

PRIMARY KEY (`username`),

CONSTRAINT `visitor\_ibfk\_1` FOREIGN KEY (`username`) REFERENCES `user` (`username`) ON DELETE CASCADE ON UPDATE CASCADE

)

CREATE TABLE `visit\_site` (

`visit\_start\_date` date NOT NULL,

`visitor\_username` varchar(50) NOT NULL,

`site\_name` varchar(50) NOT NULL,

PRIMARY KEY (`visit\_start\_date`,`visitor\_username`,`site\_name`),

KEY `visitor\_username` (`visitor\_username`),

KEY `site\_name` (`site\_name`),

CONSTRAINT `visit\_site\_ibfk\_1` FOREIGN KEY (`visitor\_username`) REFERENCES `user` (`username`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT `visit\_site\_ibfk\_2` FOREIGN KEY (`site\_name`) REFERENCES `site` (`site\_name`) ON DELETE CASCADE ON UPDATE CASCADE

)