

CREATE DATABASE socialmedia

CREATE TABLE `zipcode` (

 `ZipCode` int NOT NULL,

 `City` varchar(20) NOT NULL,

 `Province` varchar(20) NOT NULL,

 PRIMARY KEY (`ZipCode`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `account` (

 `ProfileID` int NOT NULL AUTO_INCREMENT,

 `FirstName` varchar(50) NOT NULL,

 `LastName` varchar(50) NOT NULL,

 `Password` varchar(50) NOT NULL,

 `MailAddress` varchar(250) NOT NULL,

 `DateCreated` datetime NOT NULL,

 `DateDeleted` datetime DEFAULT NULL,

 `ZipCode` int DEFAULT NULL,

 PRIMARY KEY (`ProfileID`),

 UNIQUE KEY `MailAddress` (`MailAddress`)

) ENGINE=InnoDB AUTO_INCREMENT=9 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `profile` (

 `ProfileID` int NOT NULL,

 `Age` int NOT NULL,

 `Genre` varchar(50) NOT NULL,

 `Birthday` datetime NOT NULL,

 `Interest` varchar(50) NOT NULL,

 `Street` varchar(50) DEFAULT NULL,

```
`ZipCode` int DEFAULT NULL,  
PRIMARY KEY (`ProfileID`),  
UNIQUE KEY `ProfileID` (`ProfileID`),  
CONSTRAINT `profile_ibfk_1` FOREIGN KEY (`ProfileID`) REFERENCES `account` (`ProfileID`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

```
CREATE TABLE `feed` (  
  `FeedID` int NOT NULL AUTO_INCREMENT,  
  `ProfileID` int DEFAULT NULL,  
  `FeedCreated` datetime NOT NULL,  
  `FeedModified` datetime DEFAULT NULL,  
  `FeedDeleted` datetime DEFAULT NULL,  
  `FeedContent` varchar(1000) NOT NULL,  
  `FeedPhotos` longblob,  
  PRIMARY KEY (`FeedID`),  
  KEY `ProfileID` (`ProfileID`),  
  CONSTRAINT `feed_ibfk_1` FOREIGN KEY (`ProfileID`) REFERENCES `account` (`ProfileID`)  
) ENGINE=InnoDB AUTO_INCREMENT=38 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

```
CREATE TABLE `commentaries` (  
  `CommentID` int NOT NULL AUTO_INCREMENT,  
  `ProfileID_of_comment` int DEFAULT NULL,  
  `FeedID` int DEFAULT NULL,  
  `CommentContent` varchar(1000) NOT NULL,  
  `CommentDate` datetime NOT NULL,  
  PRIMARY KEY (`CommentID`),  
  KEY `ProfileID_of_comment` (`ProfileID_of_comment`),
```

```
CONSTRAINT `commentaries_ibfk_1` FOREIGN KEY (`ProfileID_of_comment`) REFERENCES `account`  
(`ProfileID`)  
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

CREATE TABLE `feedreactions` (

```
`FeedID` int DEFAULT NULL,  
`ProfileID_of_liker` int DEFAULT NULL,  
`LikeDate` datetime NOT NULL,  
UNIQUE KEY `FeedID` (`FeedID`,`ProfileID_of_liker`),  
KEY `ProfileID_of_liker` (`ProfileID_of_liker`),  
CONSTRAINT `feedreactions_ibfk_1` FOREIGN KEY (`ProfileID_of_liker`) REFERENCES `account`  
(`ProfileID`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

CREATE TABLE `commentreactions` (

```
`FeedID` int DEFAULT NULL,  
`ProfileID_of_liker` int DEFAULT NULL,  
`LikeDate` datetime NOT NULL,  
KEY `ProfileID_of_liker` (`ProfileID_of_liker`),  
CONSTRAINT `commentreactions_ibfk_1` FOREIGN KEY (`ProfileID_of_liker`) REFERENCES `account`  
(`ProfileID`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

CREATE TABLE `friendship` (

```
`ProfileID_sender` int DEFAULT NULL,  
`ProfileID_receiver` int DEFAULT NULL,  
`DateSent` datetime NOT NULL,  
`DateAccepted` datetime DEFAULT NULL,  
`Status` bit(1) DEFAULT b'0',  
UNIQUE KEY `ProfileID_sender` (`ProfileID_sender`,`ProfileID_receiver`),
```

```

KEY `ProfileID_receiver` (`ProfileID_receiver`),
CONSTRAINT `friendship_ibfk_1` FOREIGN KEY (`ProfileID_sender`) REFERENCES `account` (`ProfileID`),
CONSTRAINT `friendship_ibfk_2` FOREIGN KEY (`ProfileID_receiver`) REFERENCES `account` (`ProfileID`),
CONSTRAINT `friendship_chk_1` CHECK ((`ProfileID_receiver` <> `ProfileID_sender`))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

CREATE TABLE `message` (

```

`MessageID` int NOT NULL AUTO_INCREMENT,
`ProfileID_sender` int DEFAULT NULL,
`ProfileID_receiver` int DEFAULT NULL,
`MessageContent` varchar(1000) NOT NULL,
`MessageDate` varchar(1000) NOT NULL,
`Seen` bit(1) DEFAULT b'0',
PRIMARY KEY (`MessageID`),
KEY `ProfileID_sender` (`ProfileID_sender`),
KEY `ProfileID_receiver` (`ProfileID_receiver`),
CONSTRAINT `message_ibfk_1` FOREIGN KEY (`ProfileID_sender`) REFERENCES `account` (`ProfileID`),
CONSTRAINT `message_ibfk_2` FOREIGN KEY (`ProfileID_receiver`) REFERENCES `account` (`ProfileID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

CREATE TABLE `groupchat` (

```

`GroupChatID` int NOT NULL AUTO_INCREMENT,
`ProfileID_organizer` int DEFAULT NULL,
`Title` varchar(15) DEFAULT NULL,
PRIMARY KEY (`GroupChatID`),
KEY `ProfileID_organizer` (`ProfileID_organizer`),
CONSTRAINT `groupchat_ibfk_1` FOREIGN KEY (`ProfileID_organizer`) REFERENCES `account` (`ProfileID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

CREATE TABLE `groupchatmessage` (

 `GroupChatID` int DEFAULT NULL,

 `ProfileID_participant` int DEFAULT NULL,

 `Message` varchar(1000) NOT NULL,

 `DateSent` datetime NOT NULL,

 KEY `GroupChatID` (`GroupChatID`),

 KEY `ProfileID_participant` (`ProfileID_participant`),

 CONSTRAINT `groupchatmessage_ibfk_1` FOREIGN KEY (`GroupChatID`) REFERENCES `groupchat`
 (`GroupChatID`),

 CONSTRAINT `groupchatmessage_ibfk_2` FOREIGN KEY (`ProfileID_participant`) REFERENCES `account`
 (`ProfileID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

CREATE TABLE `groupchatparticipant` (

 `GroupChatID` int DEFAULT NULL,

 `ProfileID_participant` int DEFAULT NULL,

 KEY `ProfileID_participant` (`ProfileID_participant`),

 KEY `GroupChatID` (`GroupChatID`),

 CONSTRAINT `groupchatparticipant_ibfk_1` FOREIGN KEY (`ProfileID_participant`) REFERENCES
 `account` (`ProfileID`),

 CONSTRAINT `groupchatparticipant_ibfk_2` FOREIGN KEY (`GroupChatID`) REFERENCES `groupchat`
 (`GroupChatID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci