

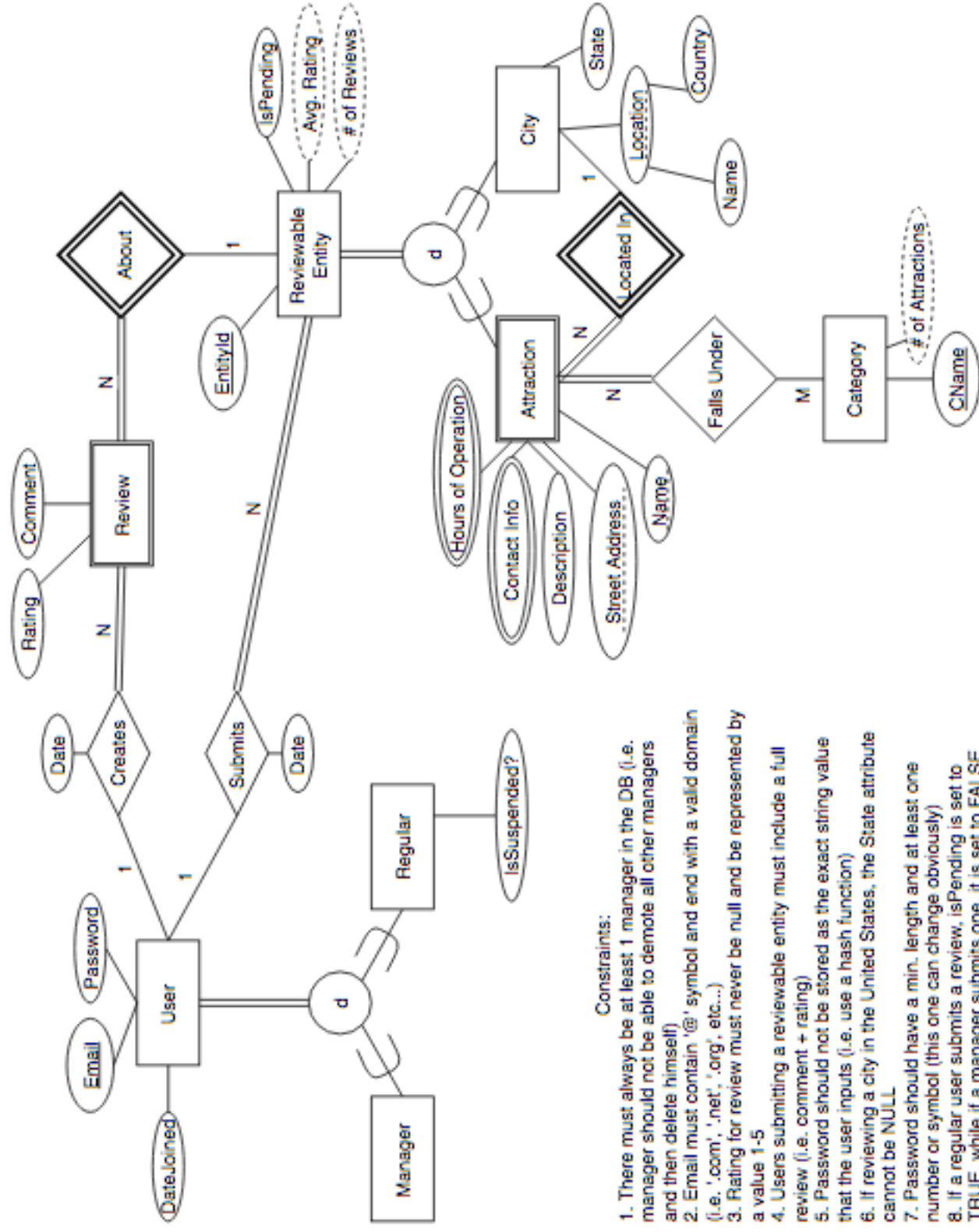
Prof. Sweat

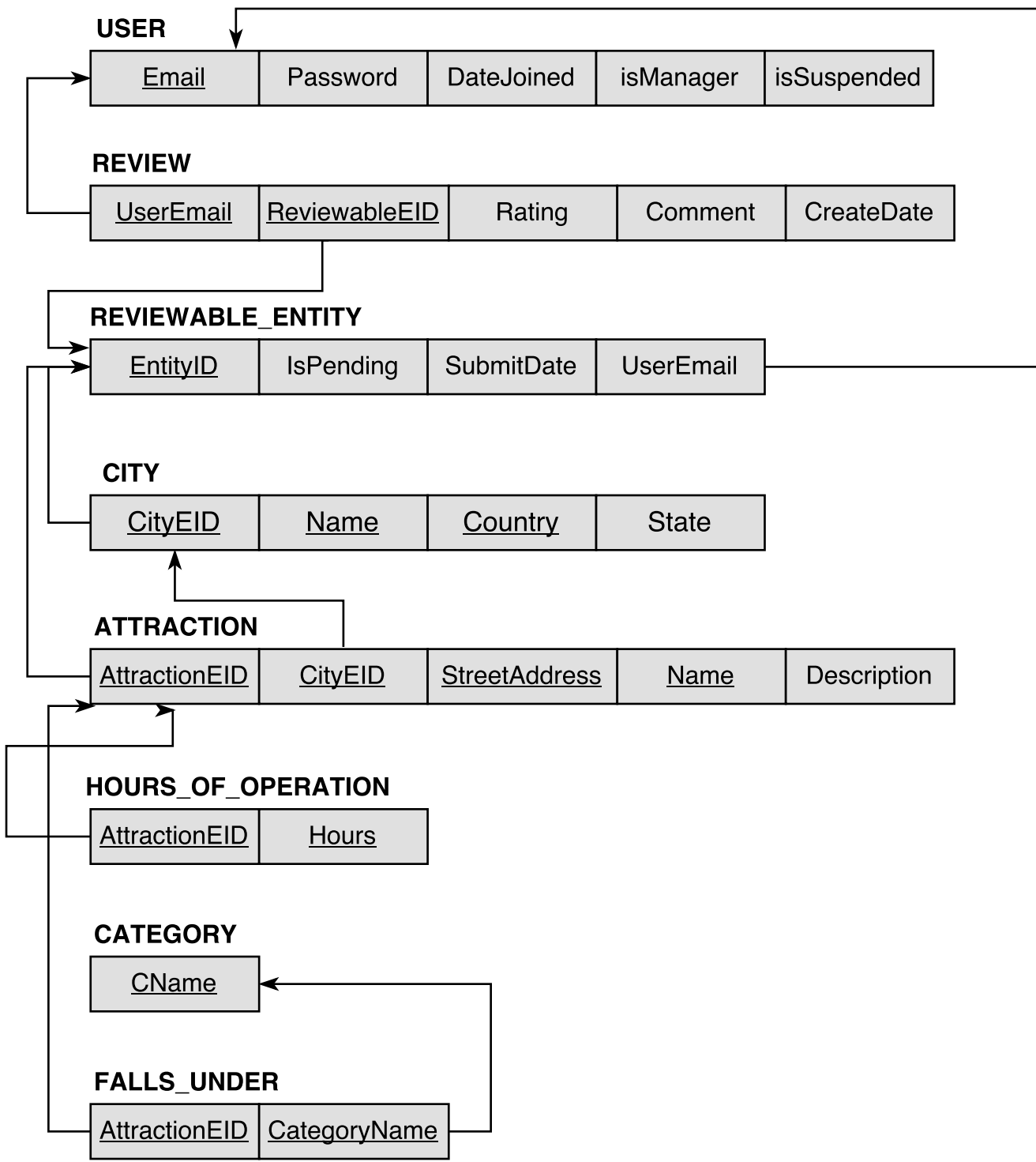
CS 4400

7/4/17

Team: Michael, Will, Rob, Ben

Below: EER, Schema Diagram, SQL statements for create Table





```
CREATE SCHEMA `RateACity` ;
```

```
CREATE TABLE `RateACity`.`USER` (  
  `Email` VARCHAR(45) NOT NULL,  
  `Password` INT NOT NULL,  
  `DateJoined` DATETIME NULL,  
  `IsManager` TINYINT(1) NOT NULL DEFAULT 0,  
  `IsSuspended` TINYINT(1) NOT NULL DEFAULT 0,  
  PRIMARY KEY (`Email`),  
  CHECK (Email IN('@', '.')) );
```

```
CREATE TABLE `RateACity`.`REVIEWABLE_ENTITY` (  
  `EntityID` INT NOT NULL,  
  `IsPending` TINYINT(1) NOT NULL DEFAULT 0,  
  `UserEmail` VARCHAR(45) NOT NULL,  
  `SubmitDate` DATETIME NOT NULL,  
  PRIMARY KEY (`EntityID`),  
  FOREIGN KEY (`UserEmail`) REFERENCES `RateACity`.`USER` (`Email`),  
  CHECK (UserEmail IN('@', '.')) );
```

```
CREATE TABLE `RateACity`.`REVIEW` (  
  `UserEmail` VARCHAR(50) NOT NULL,  
  `ReviewableEID` INT NOT NULL UNIQUE,  
  `Rating` INT NOT NULL,  
  `Comment` VARCHAR(45) NOT NULL,  
  `CreateDate` DATETIME NOT NULL,  
  PRIMARY KEY (`UserEmail`, `ReviewableEID`),  
  FOREIGN KEY (`UserEmail`) REFERENCES `RateACity`.`USER` (`Email`),  
  FOREIGN KEY (`ReviewableEID`) REFERENCES `RateACity`.`REVIEWABLE_ENTITY` (`EntityID`),  
  CHECK (Rating>0 AND Rating<6),  
  CHECK (UserEmail IN('@', '.')) );
```

```
CREATE TABLE `RateACity`.`CITY` (  
  `CityEID` INT NOT NULL,  
  `CityName` VARCHAR(45) NOT NULL,  
  `Country` VARCHAR(45) NOT NULL,  
  `State` VARCHAR(45) NULL,  
  PRIMARY KEY (`CityEID`),  
  FOREIGN KEY (`CityEID`) REFERENCES `RateACity`.`REVIEWABLE_ENTITY` (`EntityID`));
```

```
CREATE TABLE `RateACity`.`ATTRACTION` (  
  `AttractionEID` INT NOT NULL,  
  `CityEID` INT NOT NULL,  
  `StreetAddress` VARCHAR(45) NOT NULL,
```

```
`AttractionName` VARCHAR(45) NOT NULL,  
`Description` VARCHAR(45) NOT NULL,  
PRIMARY KEY (`AttractionEID`, `StreetAddress`),  
FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`REVIEWABLE_ENTITY` (`EntityID`),  
FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`CITY` (`CityEID`));
```

```
CREATE TABLE `RateACity`.`HOURS_OF_OPERATION` (  
`AttractionEID` INT NOT NULL,  
`Hours` VARCHAR(45) NOT NULL,  
PRIMARY KEY (`AttractionEID`, `Hours`),  
FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`ATTRACTION` (`AttractionEID`));
```

```
CREATE TABLE `RateACity`.`CATEGORY` (  
`CName` VARCHAR(45) NOT NULL,  
PRIMARY KEY (`CName`));
```

```
CREATE TABLE `RateACity`.`FALLS_UNDER` (  
`AttractionEID` INT NOT NULL,  
`CName` VARCHAR(45) NOT NULL,  
PRIMARY KEY (`AttractionEID`, `CName`),  
FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`ATTRACTION` (`AttractionEID`),  
FOREIGN KEY (`CName`) REFERENCES `RateACity`.`CATEGORY` (`CName`));
```