

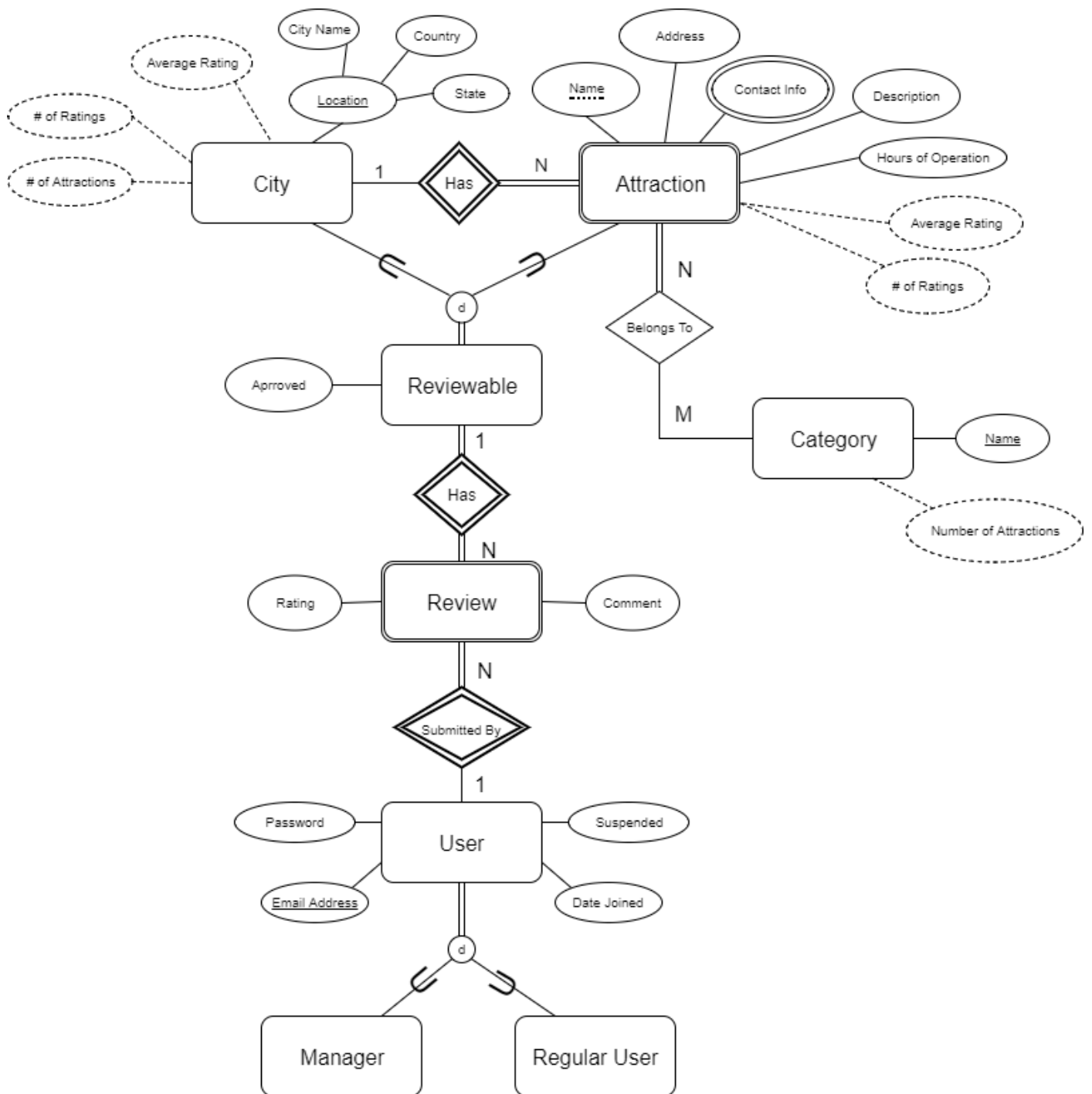
Prof. Sweat

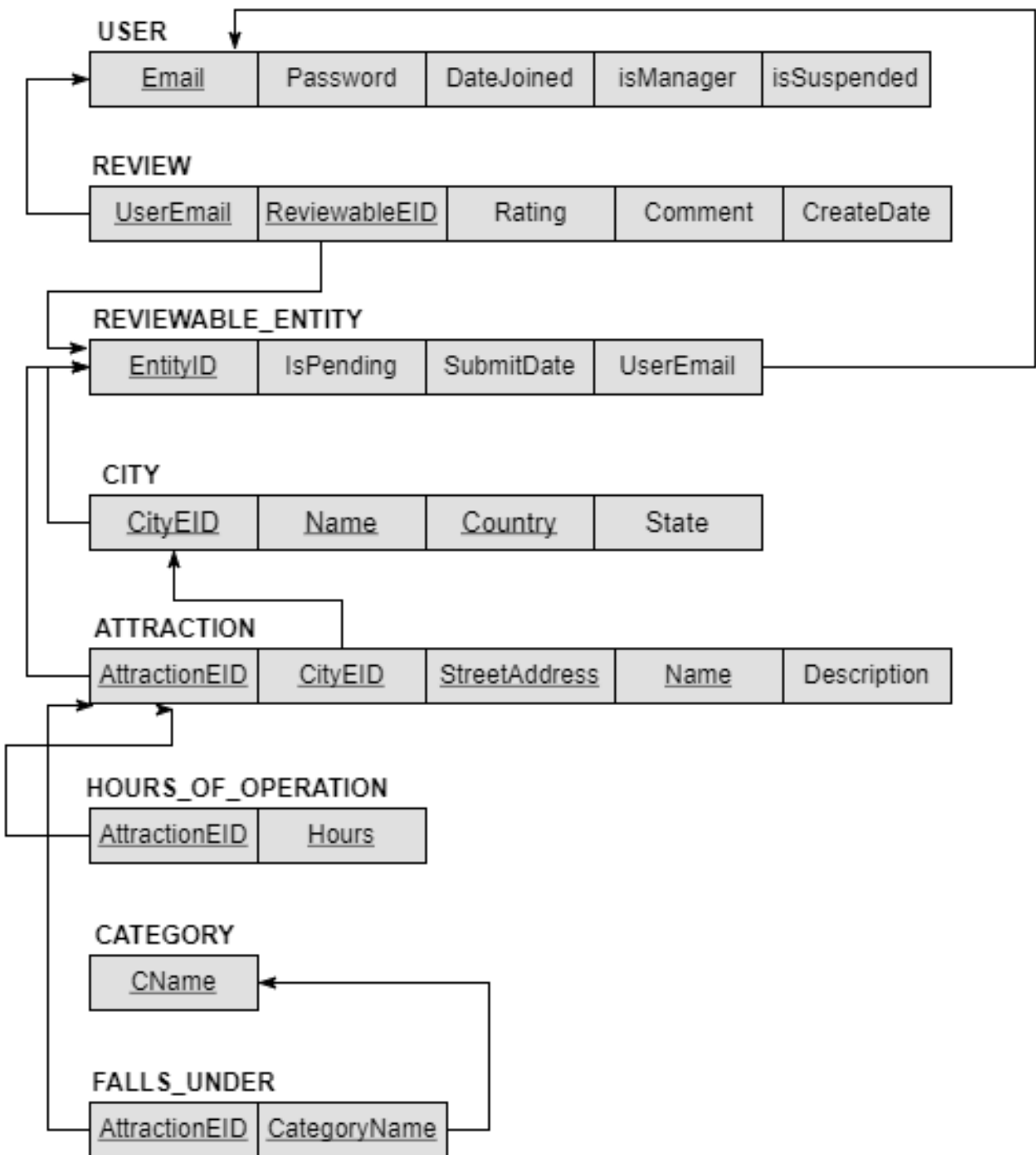
CS 4400

7/4/17

Team: Ben, Michael, Rob, Will

Below: EER Diagram, Schema Diagram, Create table SQL statements





```
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`) ON  
  UPDATE CASCADE,  
  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`) ON  
UPDATE CASCADE,  
  
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`));
```