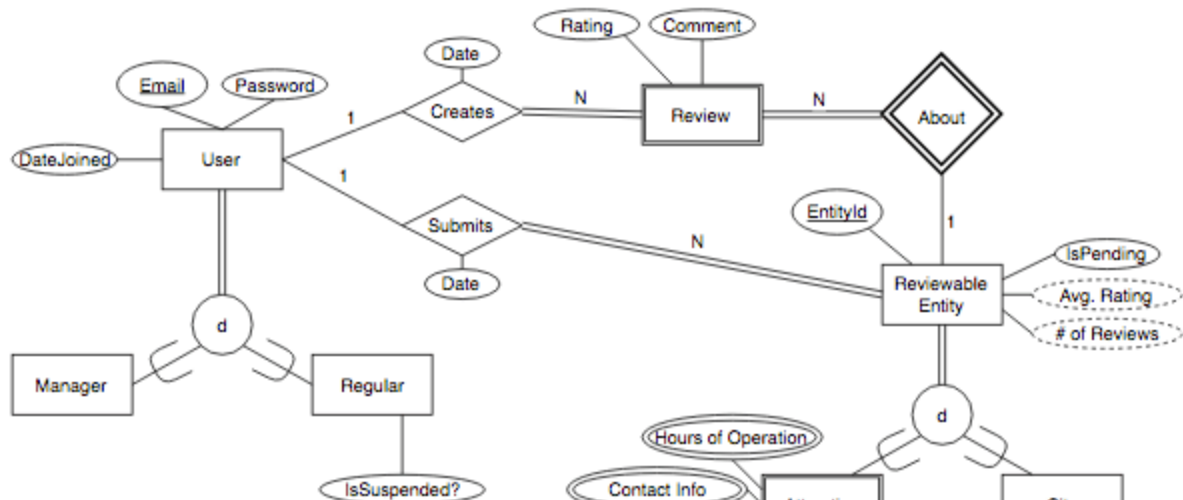
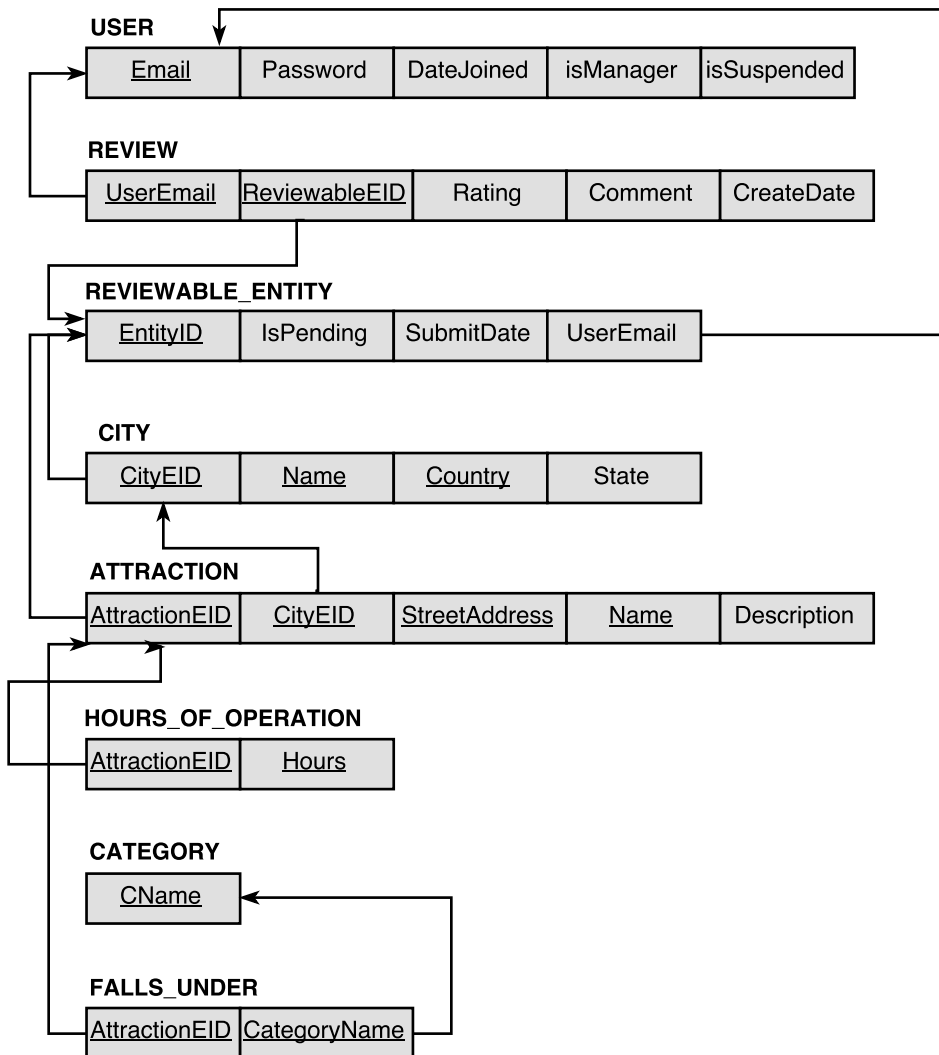


Our group members are Will Epperson, Ben Geier, Rob Firstman, and Michael Xiao.



Constraints:

1. There must always be at least 1 manager in the DB (i.e. manager should not be able to demote all other managers and then delete himself)
2. Email must contain '@' symbol and end with a valid domain (i.e. '.com', '.net', '.org', etc...)
3. Rating for review must never be null and be represented by a value 1-5
4. Users submitting a reviewable entity must include a full review (i.e. comment + rating)
5. Password should not be stored as the exact string value that the user inputs (i.e. use a hash function)
6. If reviewing a city in the United States, the State attribute cannot be NULL
7. Password should have a min. length and at least one number or symbol (this one can change obviously)
8. If a regular user submits a review, isPending is set to TRUE, while if a manager submits one, it is set to FALSE



```
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`));
```