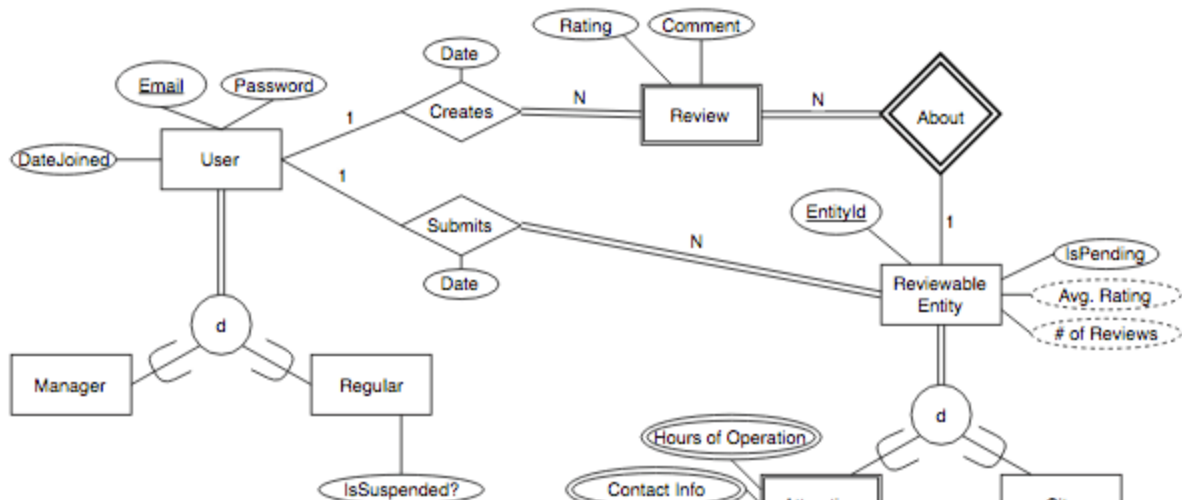
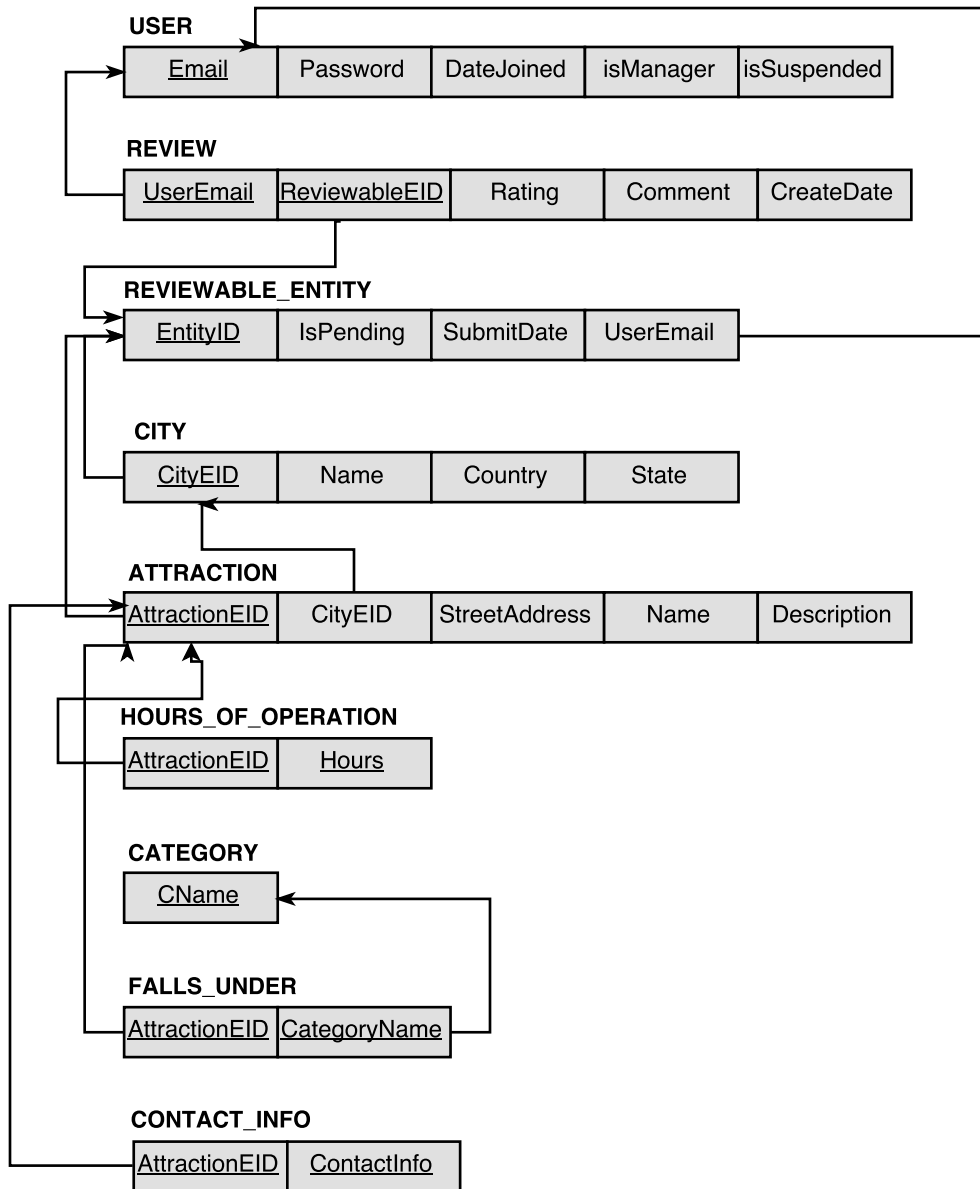


Our group members are Will Epperson, Ben Geier, Rob Firstman, and Michael Xiao.



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),  
  `Password` INT NOT NULL,  
  `DateJoined` DATETIME NOT NULL,  
  `IsManager` TINYINT(1) NOT NULL DEFAULT 0,  
  `IsSuspended` TINYINT(1) NOT NULL DEFAULT 0,  
  PRIMARY KEY (`Email`));
```

```
CREATE TABLE `RateACity`.`REVIEWABLE_ENTITY` (  
  `EntityID` INT,  
  `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);
```

```
CREATE TABLE `RateACity`.`REVIEW` (  
  `UserEmail` VARCHAR(45),  
  `ReviewableEID` INT,  
  `Rating` INT NOT NULL,  
  `Comment` VARCHAR(255) 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));
```

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

```
CREATE TABLE `RateACity`.`HOURS_OF_OPERATION` (  
  `AttractionEID` INT,  
  `Hours` VARCHAR(45),  
  PRIMARY KEY (`AttractionEID`, `Hours`),  
  FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`ATTRACTION` (`AttractionEID`));
```

```
CREATE TABLE `RateACity`.`CATEGORY` (  
  `CName` VARCHAR(45),  
  PRIMARY KEY (`CName`));
```

```
CREATE TABLE `RateACity`.`FALLS_UNDER` (  
  `AttractionEID` INT,  
  `CategoryEID` INT,  
  PRIMARY KEY (`AttractionEID`, `CategoryEID`),  
  FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`ATTRACTION` (`AttractionEID`),  
  FOREIGN KEY (`CategoryEID`) REFERENCES `RateACity`.`CATEGORY` (`CName`));
```

```
`AttractionEID` INT,  
`CName` VARCHAR(45),  
PRIMARY KEY (`AttractionEID`, `CName`),  
FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`ATTRACTION` (`AttractionEID`),  
FOREIGN KEY (`CName`) REFERENCES `RateACity`.`CATEGORY` (`CName`));
```

```
CREATE TABLE `RateACity`.`CONTACT_INFO` (  
`ContactInfo` VARCHAR(45),  
`AttractionEID` INT,  
PRIMARY KEY (`AttractionEID`, `ContactInfo`),  
FOREIGN KEY (`AttractionEID`) REFERENCES `RateACity`.`ATTRACTION` (`AttractionEID`));
```