

# Data Mgt & Database Design

## INFO 6210 Autumn Full 2019

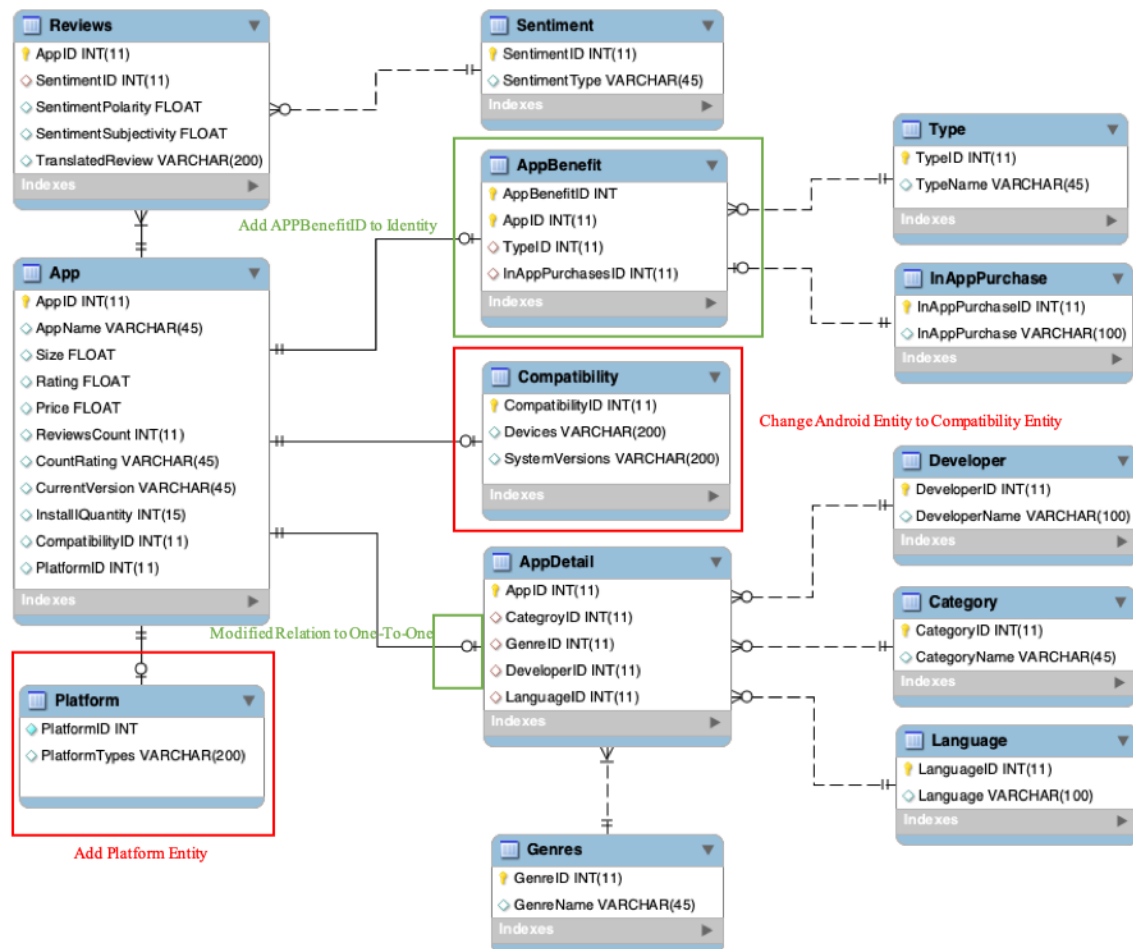
### Final ERD

#### 1. ERD Improvement

- 1) Firstly, we combined the **InstallQuantity** Entity with our **App** Entity. As the install quantity value is an attribute of the **App** Entity, which indicates how many times did this app downloaded by users.
- 2) Secondly, we created a new attribute named BenefitID in **AppBenefit** Entity, which have one-to-one relationship to **App** Entity. Each **App** Entity had one BenefitID, we used both BenefitID and AppID as PK to identify the benefit state.
- 3) Thirdly, we selected wrong connection in our initial ERD between the **AppDetail** and **App** Entity. We changed it right away as the connection between them must be one-to-one relation instead of one-to-many relation.
- 4) Fourthly, we wanted to highlight that the **UserReviews** Entity was not defined as users, which only indicated the review times for each App. So, we changed the **UserReviews** Entity into the **Reviews** Entity.
- 5) On the other hand, we created a new Entity named **Platform**, which indicated whether an App can be used via different platform such as mobile phone, pad or PC. The **Platform** Entity had one-to-one relationship with **App** Entity, as for each App, it would have its proper combination of the platform.

- 6) Finally, we also created a one-to-one relationship Entity named **Compatibility** with **App** Entity, which contained Devices and System Version parameters to show whether an App is suitable for different version type.

## 2. Changes to initial ERD



## 3. Final ERD

