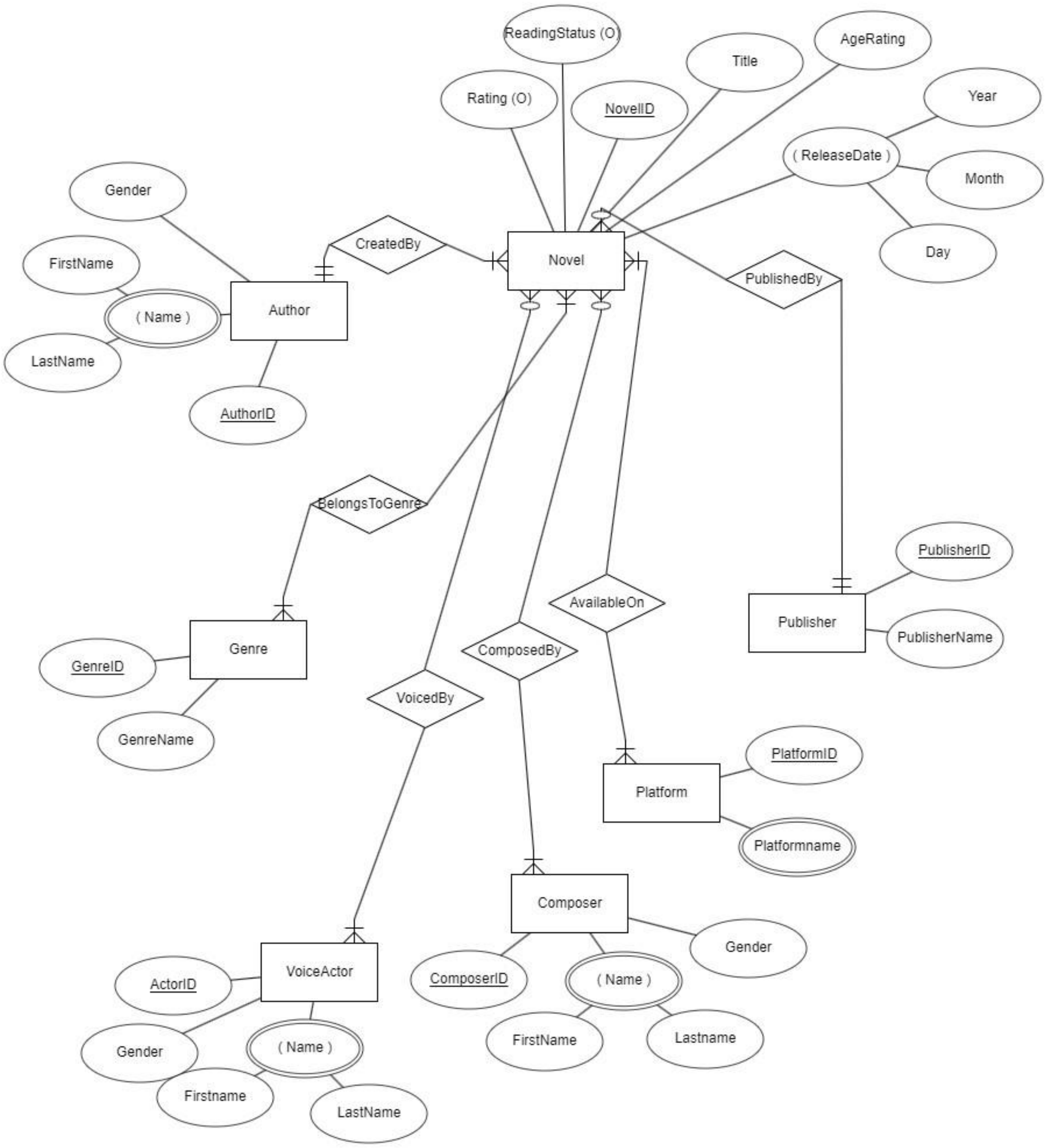
Danilo Zelenovic

501032542



ENTITY TABLES:

```
CREATE TABLE Author (
   AuthorID INTEGER PRIMARY KEY AUTOINCREMENT,
   Name VARCHAR(255) NOT NULL,
   CONSTRAINT ck_author UNIQUE (Name)
);

CREATE TABLE Novel (
   NovelID INTEGER PRIMARY KEY AUTOINCREMENT,
   Title VARCHAR(255) NOT NULL,
   AgeRating VARCHAR(10),
   ReleaseDate DATE,
   Status VARCHAR(50),
   HighestRating REAL,
   LowestRating REAL,
   ReadingStatus VARCHAR(50)
);

CREATE TABLE VoiceActor (
   VoiceActorID INTEGER PRIMARY KEY AUTOINCREMENT,
   Name VARCHAR(255) NOT NULL,
   Gender VARCHAR(10)
);

CREATE TABLE Composer (
   ComposerID INTEGER PRIMARY KEY AUTOINCREMENT,
   Name VARCHAR(255) NOT NULL,
   CONSTRAINT ck_composer UNIQUE (Name)
);
```

```
CREATE TABLE Genre (
   GenreID INTEGER PRIMARY KEY AUTOINCREMENT,
   GenreName VARCHAR(255) NOT NULL,
   CONSTRAINT ck_genre UNIQUE (GenreName)
);

CREATE TABLE Platform (
   PlatformID INTEGER PRIMARY KEY AUTOINCREMENT,
   PlatformName VARCHAR(255) NOT NULL,
   CONSTRAINT ck_platform UNIQUE (PlatformName)
);
```

RELATIONSHIP TABLES:

```
CREATE TABLE PublishedBy (
   NovelID INTEGER,
   AuthorID INTEGER,
   FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),
   FOREIGN KEY (AuthorID) REFERENCES Author(AuthorID),
   PRIMARY KEY (NovelID, AuthorID)
);

CREATE TABLE WrittenBy (
   NovelID INTEGER,
   AuthorID INTEGER,
   FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),
   FOREIGN KEY (AuthorID) REFERENCES Author(AuthorID),
   PRIMARY KEY (NovelID, AuthorID)
);

CREATE TABLE VoicedBy (
   NovelID INTEGER,
   VoiceActorID INTEGER,
   Gender VARCHAR(10),
   FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),
   FOREIGN KEY (VoiceActorID) REFERENCES VoiceActor(VoiceActorID),
   PRIMARY KEY (NovelID, VoiceActorID)
);

CREATE TABLE ComposedBy (
   NovelID INTEGER,
   ComposerID INTEGER,
   FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),
   FOREIGN KEY (ComposerID) REFERENCES Composer(ComposerID),
   PRIMARY KEY (NovelID, ComposerID)
);

CREATE TABLE BelongsToGenre (
   NovelID INTEGER,
   GenreID INTEGER,
   FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),
   FOREIGN KEY (GenreID) REFERENCES Genre(GenreID),
   PRIMARY KEY (NovelID, GenreID)
);
```

```
CREATE TABLE AvailableOn (
    NovelID INTEGER,
    PlatformID INTEGER,
    FOREIGN KEY (NovelID) REFERENCES Novel(NovelID),
    FOREIGN KEY (PlatformID) REFERENCES Platform(PlatformID),
    PRIMARY KEY (NovelID, PlatformID)
);
```

Description of each Table:

Novel Table:

Columns: NovelID (Primary Key), Title, AgeRating, ReleaseDate, Status, HighestRating, LowestRating, ReadingStatus

Description: This table stores information about novels, including their titles, ratings, release dates, and reading statuses. It relates to the ER design by representing the entity "Novel."

Author Table:

Columns: AuthorID (Primary Key), Name

Description: This table stores information about authors of novels. It relates to the ER design by representing the entity "Author."

VoiceActor Table:

Columns: VoiceActorID (Primary Key), Name, Gender

Description: This table stores information about voice actors. It relates to the ER design by representing the entity "VoiceActor."

Composer Table:

Columns: ComposerID (Primary Key), Name

Description: This table stores information about composers. It relates to the ER design by representing the entity "Composer."

Genre Table:

Columns: GenreID (Primary Key), GenreName

Description: This table stores information about genres of novels. It relates to the ER design by representing the entity "Genre."

Platform Table:

Columns: PlatformID (Primary Key), PlatformName

Description: This table stores information about platforms where novels are available. It relates to the ER design by representing the entity "Platform."

FOR RELATIONSHIPS:

PublishedBy Table:

Columns: NovelID (Foreign Key), AuthorID (Foreign Key)

Description: This table represents the relationship between novels and authors, indicating which authors have published which novels.

WrittenBy Table:

Columns: NovelID (Foreign Key), AuthorID (Foreign Key)

Description: This table represents the relationship between novels and authors for scenario writing.

VoicedBy Table:

Columns: NovelID (Foreign Key), VoiceActorID (Foreign Key), Gender

Description: This table represents the relationship between novels and voice actors, indicating which voice actors have voiced which novels.

ComposedBy Table:

Columns: NovelID (Foreign Key), ComposerID (Foreign Key)

Description: This table represents the relationship between novels and composers, indicating which composers have composed music for which novels.

BelongsToGenre Table:

Columns: NovelID (Foreign Key), GenreID (Foreign Key)

Description: This table represents the relationship between novels and genres, indicating which genres each novel belongs to.

AvailableOn Table:

Columns: NovelID (Foreign Key), PlatformID (Foreign Key)

Description: This table represents the relationship between novels and platforms, indicating which platforms each novel is available on.