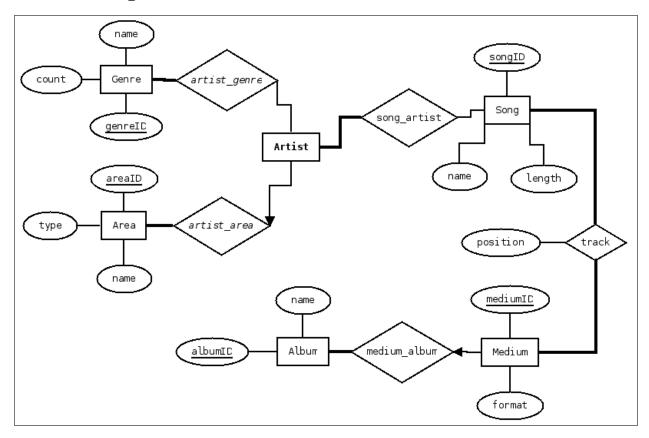
CS-322 Introduction to Database Systems Project Deliverable #1

Due on Sunday, March 23^{rd} , 2014

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ER modeling



```
CREATE TABLE Areas (
     areaID CHAR(20),
     name CHAR(40),
     type CHAR(20),
    PRIMARY KEY (areaID) )
  CREATE TABLE Genres (
     genreID CHAR(20),
     name CHAR(40),
     type CHAR(20),
10
     count INTEGER,
    PRIMARY KEY (genreID) )
   CREATE TABLE Artists (
     artistID CHAR(20),
15
     name CHAR(40),
     type CHAR(20),
     areaID CHAR(20),
    PRIMARY KEY (artistID),
    FOREIGN KEY (areaID) REFERENCES Areas )
  CREATE TABLE Songs (
     songID CHAR(20),
     name CHAR(40),
```

```
length INTEGER,
PRIMARY KEY (songID) )

CREATE TABLE Albums (
    albumID CHAR(20),
    name CHAR(40),
    PRIMARY KEY (albumID) )

CREATE TABLE Mediums (
    mediumID CHAR(20),
    name CHAR(40),
    format CHAR(20),
    albumID CHAR(20),
    albumID CHAR(20),
    PRIMARY KEY (mediumID),
    FOREIGN KEY (albumID) REFERENCES Albums )
```

SQL script for entities table creation

```
CREATE TABLE Artist_genre (
     artistID CHAR(20) NOT NULL,
     genreID CHAR(40),
    PRIMARY KEY (artistID, genreID),
    FOREIGN KEY (artistID) REFERENCES Artists,
    FOREIGN KEY (genreID) REFERENCES Genres )
  CREATE TABLE Song_artist (
     songID CHAR (40) NOT NULL,
     artistID CHAR(20),
    PRIMARY KEY (songID, artistID),
    FOREIGN KEY (songID) REFERENCES Songs ,
    FOREIGN KEY (artistID) REFERENCES Artists )
15 CREATE TABLE Tracks (
     songID CHAR (40),
     mediumID CHAR(20),
     position INTEGER,
    PRIMARY KEY (songID, mediumID),
    FOREIGN KEY (songID) REFERENCES Songs ,
    FOREIGN KEY (mediumID) REFERENCES Mediums )
```

SQL script for relations table creation