

```
CREATE TABLE instrument (  
    name VARCHAR NOT NULL,  
    pitch VARCHAR NOT NULL,  
    CONSTRAINT pk_instrument PRIMARY KEY (name)  
);
```

```
CREATE TABLE address (  
    addressID INTEGER NOT NULL,  
    number INTEGER NOT NULL,  
    street1 VARCHAR(40) NOT NULL,  
    street2 VARCHAR NOT NULL,  
    city VARCHAR NOT NULL,  
    state VARCHAR NOT NULL,  
    zipCode VARCHAR NOT NULL,  
    telephone VARCHAR NOT NULL,  
    CONSTRAINT pk_address PRIMARY KEY (addressID)  
);
```

```
CREATE TABLE musician (  
    ssn INTEGER NOT NULL,  
    name VARCHAR(400) NOT NULL,  
    addressID INTEGER NOT NULL,  
    CONSTRAINT pk_musician PRIMARY KEY (ssn)  
);
```

```
CREATE TABLE plays (  
    ssn INTEGER NOT NULL,  
    name VARCHAR NOT NULL,  
    CONSTRAINT pk_plays PRIMARY KEY (ssn, name)  
);
```

```
CREATE TABLE album (  
    albumID INTEGER NOT NULL,  
    title VARCHAR NOT NULL,  
    release_date DATE NOT NULL,  
    format VARCHAR NOT NULL,  
    age INTEGER NOT NULL,  
    ssn_producer INTEGER NOT NULL,  
    CONSTRAINT pk_album PRIMARY KEY (albumID)  
);
```

```
CREATE TABLE song (  
    title VARCHAR NOT NULL,  
    length INTEGER NOT NULL,  
    ssn_author INTEGER NOT NULL,  
    albumID INTEGER NOT NULL,  
    CONSTRAINT pk_song PRIMARY KEY (title)  
);
```

```
CREATE TABLE uses (  
    name VARCHAR NOT NULL,  
    title VARCHAR NOT NULL,  
    CONSTRAINT pk_uses PRIMARY KEY (name, title)  
);
```

```
CREATE TABLE performs (  
    ssn INTEGER NOT NULL,  
    title VARCHAR NOT NULL,  
    CONSTRAINT pk_performs PRIMARY KEY (ssn, title)  
);
```

```
ALTER TABLE uses ADD CONSTRAINT instrument_uses_fk  
FOREIGN KEY (name)  
REFERENCES instrument (name)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE plays ADD CONSTRAINT instrument_plays_fk  
FOREIGN KEY (name)  
REFERENCES instrument (name)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE musician ADD CONSTRAINT address_musician_fk  
FOREIGN KEY (addressID)  
REFERENCES address (addressID)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE album ADD CONSTRAINT musician_album_fk  
FOREIGN KEY (ssn_producer)  
REFERENCES musician (ssn)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE song ADD CONSTRAINT musician_song_fk  
FOREIGN KEY (ssn_author)  
REFERENCES musician (ssn)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE performs ADD CONSTRAINT musician_performs_fk  
FOREIGN KEY (ssn)  
REFERENCES musician (ssn)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE plays ADD CONSTRAINT musician_plays_fk  
FOREIGN KEY (ssn)  
REFERENCES musician (ssn)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE song ADD CONSTRAINT album_song_fk  
FOREIGN KEY (albumID)  
REFERENCES album (albumID)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE performs ADD CONSTRAINT song_performs_fk  
FOREIGN KEY (title)  
REFERENCES song (title)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```

```
ALTER TABLE uses ADD CONSTRAINT song_uses_fk  
FOREIGN KEY (title)  
REFERENCES song (title)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION  
NOT DEFERRABLE;
```