1)

A ← σ(genre = pop song)(GenreOfSong)

B ← σ(name= Taylor Smith)(Artist)

π{title}(A wpsoffice Song wpsoffice SongCreating wpsoffice B)

2)

A ← σ(name= Taylor Smith) (Artist)

B ← σ(name = Ed Sheeran) (Artist)

π{title}(Song wpsoffice SongCreating wpsoffice (A ∪ B))

3)

A ← σ(genre = pop song) (GenreOfSong)

B ← σ(genre = hip-hop) (GenreOfSong)

C ← π{name} ( Artist wpsoffice SongCreating wpsofficeSong wpsoffice A) - π{name} (Artist wpsoffice SongCreating wpsofficeSong wpsofficeB)

D ← σ(gender =Female )(Artist)

E ← σ(company = Universal Music Group) (Company)

F ← π{name} (D wpsofficeJoinIn wpsoffice E)

G ← C ∩ F

4)

A ← π{sID} (Songcreating wpsoffice σ(name = Taylor Smith) (Artist))

B ← π{aID} (σ(name = Taylor Smith) Artist)

C ← π{aID}(Songcreating wpsoffice A) - B

D ← π{aID, Genre} (Song Creating wpsofficeGenreOfSong) ÷ π {Genre}(GenreofSong)

E ← π{name}( Artist wpsoffice (C ∩ D) )