```
A \leftarrow \sigma_{\text{(genre = pop song)}}(\text{GenreOfSong})
B \leftarrow \sigma_{\text{(name= Taylor Smith)}}(Artist)
\pi_{\text{(title)}} (A \bowtie Song \bowtie SongCreating \bowtie B)
2)
A \leftarrow \sigma_{\text{(name= Taylor Smith)}} (Artist)
B \leftarrow \sigma_{\text{(name = Ed Sheeran)}} \text{(Artist)}
\pi_{\text{(title)}}(Song \bowtie SongCreating \bowtie (A \cup B))
3)
A \leftarrow \sigma_{\text{(genre = pop song)}} \text{(GenreOfSong)}
B \leftarrow \sigma_{\text{(genre = hip-hop)}}\text{(GenreOfSong)}
C \leftarrow \pi_{\text{\{name\}}} (Artist \bowtie SongCreating \bowtie Song \bowtie A) - \pi_{\text{\{name\}}} (Artist \bowtie SongCreating \bowtie Song
\bowtie B)
D \leftarrow \sigma_{\text{(gender = Female )}}(Artist)
E \leftarrow \sigma_{\text{(company = Universal Music Group)}} (Company)
F \leftarrow \pi_{\{name\}}(D \bowtie JoinIn \bowtie E)
G \leftarrow C \cap F
4)
A \leftarrow \pi_{\{sID\}} (Songcreating \bowtie \sigma_{(name = Taylor Smith)} (Artist))
B \leftarrow \pi_{\{aID\}} (\sigma_{(name = Taylor Smith)} Artist)
C \leftarrow \pi_{\text{\{aID\}}}(Songcreating} \bowtie A) - B
D \leftarrow \pi_{\{alD, Genre\}} (Song Creating \bowtie GenreOfSong) \div \pi_{\{Genre\}} (GenreofSong)
\mathsf{E} \leftarrow \pi_{\text{\{name\}}} ( \text{ Artist } \bowtie (\mathsf{C} \ \cap \ \mathsf{D}) \, )
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1)