Relational Algebra of functional queries that are located in functional.sql

```
1.
       \pi count(*) (\sigma End Date<? \wedge End Date>? Album)
2.
       \pi(*) (\sigma Name like %?% performer)
       \pi count(*) (\pi * (\sigma M_ID=?\landdate>?\landdate<?
                       (\pi (*) ((\pi (*) Songs) \bowtie performer songs))))
3.
       \pi(*) (\sigma Name like %?% performer)
       \pi count(*) (\sigma End_Date > ? \wedge End_Date < ?
               (y a ID (\pi A ID (\pi (*) (\pi * Album Songs) \bowtie
                       (\pi (*) (\sigma M_{ID} = ? performer Songs))))) \bowtie Album)
4.
       \pi(*) (inst)
       \pi count(*) (\pi (*) (\sigma |_ID=? performer inst)\bowtie performer Songs)
5.
       \pi(*) (\sigma Name like %?% album)
       \pi (*) ((\pi I ID performer)\bowtie(\pi M ID
                               (\sigma a_{id} = ? Album Songs)) \bowtie () \bowtie instt)
```

```
6.
       \pi(*) (Prod)
       \pi count (*) ((\pi (*) (\sigma End_Date > ? \wedge End_Date < ?
                                     ((\sigma_{p_{D}}) = ? album prod) \bowtie album))))
7.
       π(*) (inst)
       π count (*) ( (π (*)
               (\sigma \sqcup D=? performer_inst)) \bowtie performer_Songs)
8.
       \pi count (*) ( \gamma M id (\pi (*) performer) \bowtie performer Songs )
9.
       π (*) (Songs)
       \pi count (*) ( \sigma T_ID=? performer_songs)
       \pi (*) ( \sigma T_ID=? performer_songs )
       \pi (*) ( \sigma ID_musician = ? performer)
10.
       \pi(*) (songs)
11.
       \pi(*) (\sigma Date>? \wedge Date <? SONGS)
12.
       \pi (*) (\sigma End_Date = (\pi MIN(End_Date) album) album)
```

```
    π(*) (songs)
    π count (*)(σ t_ID=? album_songs)
    π(*) (songs)
    π(*) (album)
    π count (*)(σ Tech=? ((π (*) (σ A_ID =?)) ⋈ songs))
    π(*) (performer)
    π count (*)((π* (σ M_ID = ? performer_songs)) ⋈ songs)
```