שאילתות אלגברה יחסית

שאילתה 1

1)Πtitle(σbeginning>=2016-01-01Λending<2017-01-01 record)

שאילתה 2

2) Πname,title(Πidσ name=David Bowie
(σm_id(σs_id(ΠtitleσrecordDate>=2016-01-
01ΛrecordDate<2017-01-01 ⋈song) ⋈musicains_song)
⋈musicians) ⋈people)

שאילתה 3

3) Πname,title(Πidσ name=David Bowie
(σm_id(σs_id(σr_id(ΠtitleσrecordDate>=2016-01-
01ΛrecordDate<2017-01-01 record) ⋈song)
⋈musicains_song) ⋈musicians) ⋈people)

שאילתה 4

4) Πtype,count(i_id)(σi_id(σi_id
count(i_id)musicians_instrument) ⋈instrument)

שאילתה 5

5)
Πtype,snum,company(Πcompanyσim_id(Πtypeσi_id(Πsnumσ
m_id(σm_id(σs_id

(Πr_idσtitle='views' record) ⋈song) ⋈musicians_song)
⋈musicians) ⋈musicians_instrument) ⋈instrument)
⋈manufacturer)

שאילתה 6

6) Πname,address,phone,count(id)(σid(σp_id(σr_id(Πr_idσbeginning>=1966-01-01Λending<2017-01-01 record) ⋈recordproducer) ⋈producer) ⋈people)

שאילתה 7

7) Πcompany,count(im_id)(σs_id(σm_id(σi_id(Πim_id count(im_id) Λ(Πcompanyσim_id manufacturer) ⋈instrumemt) ⋈musicians_instrument) ⋈musicians_song) ⋈song)

שאילתה 8

8) Πcount(m_id)(σm_id(σm_id count(m_id) musicians_song) ⋈musicians)

שאילתה 9

9) Πpeople.name,count(join_m_id)(σid(σm_id(Πjoin_m_idσcount(join_m_id) musicians_song) ⋈musicians) ⋈people)

שאילתה 10

10) Πgenre,count(genre_id)(σgenre_id(σs_id count(genre_id) song) ⋈genre)

שאילתה 11

11) Πname,count(t_id)(σid(σt_id(σs_id count(t_id) Λ(recordDate>=2010-01-01 ΛrecordDate<2020-01-01) song) ⋈technician) ⋈people)

שאילתה 12

12) Πtitle(σmin(beginning) record)

שאילתה 14

14)ρ(s1, song)

ρ(s2, song)

Πname(σid(σt_id(σ s1.r_id=s2.r_id Λs1.t_id=s2.t_id
Λs1.s_id!=s2.s_id song) ⋈technician) ⋈people)

שאילתה 13+15

לא הצלחתי לעשות !