Database Foundations

Workshop #1

Design Database Youtube

First step: found the entity of this platform :

1.chanels

2.users or subscribers

3.videos

4.likes/.dislikes

5.comments

6.playlists

7.type\_of\_chanell

8.type of video

9.topic

10.views

Second step: define atributes per entity

1. Id, name , email ,type
2. Id,name ,email
3. Id,name, duración,type ,topic,type

4.Bolean

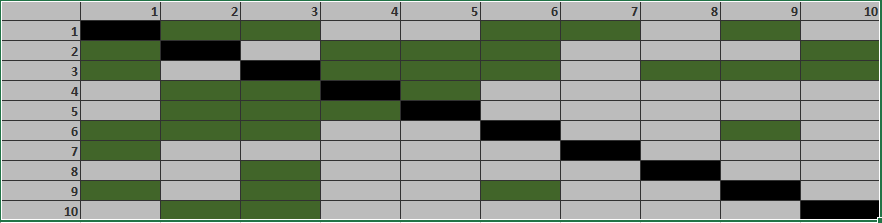
1. Id, description
2. Id,name ,descriptions
3. Id,name

8Id,name

9.id,name

10.numero

Thrid step:



Four steps: define relationsships types

E1 no mandatory many to no mandatory many e2

E1 Mandatory one to no mandatory many e3

E1 mandatory one to mandatory one e7

E1 mandatory one to no mandatory many e9

E2 mandatory one to one mandatory e4

E2 mandatory one to no mandatory many e5

E2 mandatory one to no mandatory many e6

E2 mandatory one to no mandatory many e10 -

E3 mandatory one to no mandatory many e4

E3 mandatory one to no mandatory many e5

E3 no mandatory many to mandatory one e6

E3 mandatory one to no mandatory many e8

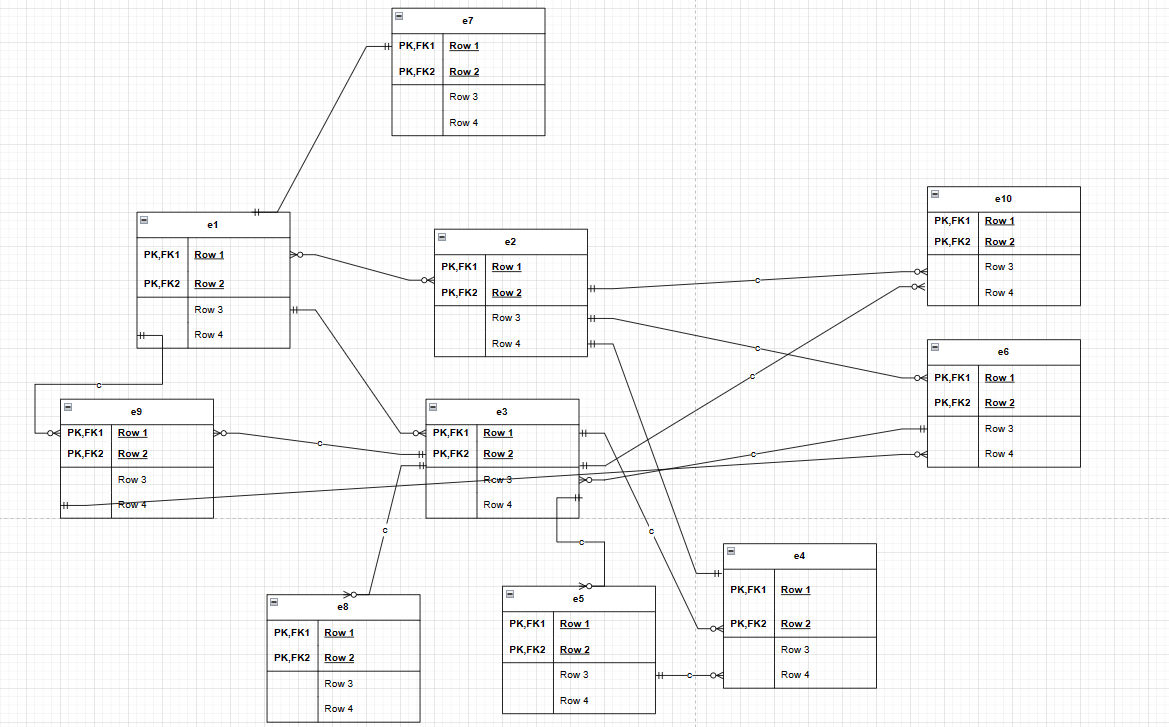
E3 mandatory one to no mandatory many e9

E3 mandatory one to no mandatory many e10

E4 no mandatory many to mandatory one e5

E6 mandatory one to no mandatory many e9

Five step: first MER draw



Six step :first Split many to many

E1 chanel -> FK e7 type of channel

E1-e2 break

E1 chanell->FK e3 videos

E1 chanell->FK e9 topic

E2 user->FK e6 playlist

E2 e4? break

E3 videos ->FK e4 likes /dislikes

E3 videos ->FK e10 views

E3 videos ->FK e5 comments

E3 videos ->FK e8 type of video

E3 videos ->FK e5 comments

E3 videos -> Fk e9 topic

E5 comments -> E4 likes /dislikes

e6 playlist - > FK e3 videos

FK e9 topic -> FK e6 playlist