QUERY:

1-select count(distinct language.name) as Numero\_Lingue

from release join language

on release.language=language.id

2- select distinct artist.name,

language.name

from release join language

on release.language=language.id

join artist\_credit

on artist\_credit.id=release.artist\_credit

join artist\_credit\_name

on artist\_credit.id=artist\_credit\_name.artist\_credit

join artist

on artist\_credit\_name.artist=artist.id

where language.name='English'

order by artist.name

3- select release.name

from release

where release.language is null

4- select release.name

from release

where release.name like '%Love%'

5- select artist\_alias.name, artist.name, artist\_alias\_type.name

from artist\_alias left join artist

on artist.id=artist\_alias.artist

join artist\_alias\_type

on artist\_alias.type=artist\_alias\_type.id

where artist.name='Prince'

6- select distinct artist.name,

release.name

from artist join artist\_type

on artist.type=artist\_type.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit.id=artist\_credit\_name.artist\_credit

join release

on artist\_credit.id=release.artist\_credit

join area

on artist.area=area.id

where artist\_type.name='Group'

and artist.ended=false

and area.name='United Kingdom'

order by artist.name, release.name

7- select distinct release.name,

artist.name,

artist\_credit.name

from artist join artist\_credit\_name

on artist.id=artist\_credit\_name.artist

join artist\_credit

on artist\_credit.id=artist\_credit\_name.artist\_credit

join release

on release.artist\_credit=artist\_credit.id

where artist\_credit.name!=artist.name

8- select artist.name,

count(release.name)

from artist join artist\_credit\_name

on artist.id=artist\_credit\_name.artist

join artist\_credit

on artist\_credit.id=artist\_credit\_name.artist\_credit

join release

on artist\_credit.id=release.artist\_credit

group by artist.name

having count(release.name)<3

9a- select artist.name,

recording.name,

recording.length/60000

from artist join gender

on artist.gender=gender.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

join recording

on recording.artist\_credit=artist\_credit.id

where gender.name='Female'

and recording.length=

(

select max(recording.length)

from artist join gender

on artist.gender=gender.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

join recording

on recording.artist\_credit=artist\_credit.id

where gender.name='Female'

)

9b- select \* from

(

select artist.name,recording.name,recording.length/60000 as length

from artist join gender

on artist.gender=gender.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

join recording

on recording.artist\_credit=artist\_credit.id

where gender.name='Female'

and recording.length is not null

)query

where query.length>= all

(

select recording.length/60000 as length

from artist join gender

on artist.gender=gender.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

join recording

on recording.artist\_credit=artist\_credit.id

where gender.name='Female'

and recording.length is not null

)

10a- select language.name,

count(release.name)

from language left join release

on language.id=release.language

group by language.name

having count(release.name)=0

10b-

select language.name,

0 as count

from language

where language.name not in

(

select language.name

from language join release

on language.id = release.language

)

group by language.name

order by language.name

11a- select recording.name,recording.length

from artist join artist\_credit\_nameon artist\_credit\_name.artist=artist.id

join artist\_crediton artist\_credit\_name.artist\_credit=artist\_credit.id

join recordingon artist\_credit.id=recording.artist\_credit

join genderon artist.gender=gender.id

where gender.name='Male' and recording.length =(

select max(query.length) from(

select recording.name,recording.length

from artist join artist\_credit\_nameon artist\_credit\_name.artist=artist.id

join artist\_crediton artist\_credit\_name.artist\_credit=artist\_credit.id

join recordingon artist\_credit.id=recording.artist\_credit

join genderon artist.gender=gender.id

where gender.name='Male'

except

select recording.name,recording.length

from artist join artist\_credit\_nameon artist\_credit\_name.artist=artist.id

join artist\_credit on artist\_credit\_name.artist\_credit=artist\_credit.id

join recording on artist\_credit.id=recording.artist\_credit

join gender on artist.gender=gender.id

where gender.name='Male'and recording.length=(

select max(recording.length)

from artist join artist\_credit\_name on artist\_credit\_name.artist=artist.id

join artist\_credit on artist\_credit\_name.artist\_credit=artist\_credit.id

join recording on artist\_credit.id=recording.artist\_credit

join gender on artist.gender=gender.id

where gender.name='Male'

)

) query

)

11b- viste

create view MaxRegUomo as // crea vista con la registrazione più lunga di un uomo

select max(recording.length)

from recording join artist

on artist.id=recording.artist\_credit

join gender on artist.gender=gender.id

join artist\_credit\_name on artist\_credit\_name.artist= artist.id

join artist\_credit on artist\_credit.id = artist\_credit\_name.artist\_credit

where gender.name = 'Male'

create view AllReg as //trova tutte le registrazioni di un uomo

select artist\_credit.name,recording.name as recName,recording.length as length

from recording join artist

on artist.id=recording.artist\_credit

join gender on artist.gender=gender.id

join artist\_credit\_name on artist\_credit\_name.artist= artist.id

join artist\_credit on artist\_credit.id = artist\_credit\_name.artist\_credit

where gender.name= 'Male'

and recording.length is not null

select AllReg.name,AllReg.recName,length

from AllReg

where length=

(

select max(query.length)

from

(

select AllReg.name,AllReg.length

from AllReg

except

select AllReg.name, AllReg.length

from AllReg

where AllReg.length=

(

select \* from MaxRegMen

)

)query

)

12a- select area.name, sum(recording.length)/60000

from area join area\_type

on area.type=area\_type.id

left join artist

on artist.area=area.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

left join recording

on recording.artist\_credit=artist\_credit.id

where area\_type.name='Country'

group by area.name

having sum(recording.length) is not null

union

select area.name, 0 as length

from area join area\_type

on area.type=area\_type.id

left join artist

on artist.area=area.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

left join recording

on recording.artist\_credit=artist\_credit.id

where area\_type.name='Country'

group by area.name

having sum(recording.length) is null

12b-

create view RegNotNull as

select area.name, sum(recording.length)/60000

from area join area\_type

on area.type=area\_type.id

left join artist

on artist.area=area.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

left join recording

on recording.artist\_credit=artist\_credit.id

where area\_type.name='Country'

group by area.name

having sum(recording.length) is not null

create view RegNull as

select area.name, 0 as length

from area join area\_type

on area.type=area\_type.id

left join artist

on artist.area=area.id

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

left join recording

on recording.artist\_credit=artist\_credit.id

where area\_type.name='Country'

group by area.name

having sum(recording.length) is null

select \* from

RegNotNull

union

select \* from

RegNull

13a- select artist.name, area.name, count(release.name)

from artist join area

on area.id=artist.area

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

join release

on release.artist\_credit=artist\_credit.id

where area.name='United Kingdom'

group by artist.name, area.name

having count(release.name)>=10

13b-

create view britainRelease as

select artist.name as artName, area.name as areaName, release.name as relName

from artist join area

on area.id=artist.area

join artist\_credit\_name

on artist\_credit\_name.artist=artist.id

join artist\_credit

on artist\_credit\_name.artist\_credit=artist\_credit.id

join release

on release.artist\_credit=artist\_credit.id

where area.name='United Kingdom'

select artName,areaName,count(relName)

from britainRelease

group by artName, areaName

having count(relName)>=10

14a-

select  distinct artist.name, count(release.name)

from release

join artist\_credit

on release.artist\_credit=artist\_credit.id

join artist\_credit\_name

on artist\_credit.id=artist\_credit\_name.artist\_credit

join artist

on artist\_credit\_name.artist=artist.id

join medium

on release.id=medium.release

join medium\_format

on medium.format=medium\_format.id

where medium\_format.name='CD'

and artist.name not in

(

select  distinct artist.name

from release

join artist\_credit

on release.artist\_credit=artist\_credit.id

join artist\_credit\_name

on artist\_credit.id=artist\_credit\_name.artist\_credit

join artist

on artist\_credit\_name.artist=artist.id

join medium

on release.id=medium.release

join medium\_format

on medium.format=medium\_format.id

where medium\_format.name='CD'

and artist.name in

(

select distinct artist.name

from medium join track

on track.medium=medium.id

join medium\_format

on medium.format=medium\_format.id

join release

on medium.release=release.id

join artist\_credit

on release.artist\_credit=artist\_credit.id

join artist\_credit\_name

on artist\_credit.id=artist\_credit\_name.artist\_credit

join artist

on artist\_credit\_name.artist=artist.id

where medium\_format.name='CD'

and medium.track\_count<=all

(

select avg(medium.track\_count)

from medium

join track

on track.medium=medium.id

join medium\_format

on medium.format=medium\_format.id

join release

on medium.release=release.id

where medium\_format.name='CD'

)

)

)

group by artist.name

order by count(release.name) desc

14b-

create view Media\_track as

select avg(medium.track\_count)

from medium

join track

on track.medium=medium.id

join medium\_format

on medium.format=medium\_format.id

join release

on medium.release=release.id

where medium\_format.name='CD'

create view ArtMin as

select distinct artist.name

from medium join track

on track.medium=medium.id

join medium\_format

on medium.format=medium\_format.id

join release

on medium.release=release.id

join artist\_credit

on release.artist\_credit=artist\_credit.id

join artist\_credit\_name

on artist\_credit.id=artist\_credit\_name.artist\_credit

join artist

on artist\_credit\_name.artist=artist.id

where medium\_format.name='CD'

and medium.track\_count<=all

(

select \* from Media\_track

)

create view ArtAll as

select CC.name from CC

where CC.name in

(

select \* from ArtMin

)

create view CC as

select distinct artist.name, count(release.name)

from release

join artist\_credit

on release.artist\_credit=artist\_credit.id

join artist\_credit\_name

on artist\_credit.id=artist\_credit\_name.artist\_credit

join artist

on artist\_credit\_name.artist=artist.id

join medium

on release.id=medium.release

join medium\_format

on medium.format=medium\_format.id

where medium\_format.name='CD'

group by artist.name

select \* from CC

where CC.name not in

(

select \* from ArtAll

)

order by count desc

15a-

select query.name,query.begin\_date\_day,query.begin\_date\_month,query.begin\_date\_year,query.end\_date\_day,query.end\_date\_month,query.end\_date\_year

from

(

select artist.name as name,artist.begin\_date\_day,artist.begin\_date\_month,artist.begin\_date\_year,artist.end\_date\_day,artist.end\_date\_month,artist.end\_date\_year

from artist

where artist.end\_date\_day >

(

select artist.end\_date\_day

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_month >

(

select artist.end\_date\_month

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_year >

(

select artist.end\_date\_year

from artist

where artist.name = 'Louis Armstrong'

)

)query

where query.end\_date\_day =

(

select min(query.end\_date\_day)

from

(

select artist.name as name,artist.end\_date\_day,artist.end\_date\_month,artist.end\_date\_year

from artist

where artist.end\_date\_day >

(

select artist.end\_date\_day

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_month >

(

select artist.end\_date\_month

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_year >

(

select artist.end\_date\_year

from artist

where artist.name = 'Louis Armstrong'

)

)query

)

and query.end\_date\_month =

(

select min(query.end\_date\_month)

from

(

select artist.name as name,artist.end\_date\_day,artist.end\_date\_month,artist.end\_date\_year

from artist

where artist.end\_date\_day >

(

select artist.end\_date\_day

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_month >

(

select artist.end\_date\_month

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_year >

(

select artist.end\_date\_year

from artist

where artist.name = 'Louis Armstrong'

)

)query

)

and query.end\_date\_year =

(

select min(query.end\_date\_year)

from

(

select artist.name as name,artist.end\_date\_day,artist.end\_date\_month,artist.end\_date\_year

from artist

where artist.end\_date\_day >

(

select artist.end\_date\_day

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_month >

(

select artist.end\_date\_month

from artist

where artist.name = 'Louis Armstrong'

)

and artist.end\_date\_year >

(

select artist.end\_date\_year

from artist

where artist.name = 'Louis Armstrong'

)

)query

)

15b-

create view DayDeath as

select artist.end\_date\_day

from artist

where artist.name = 'Louis Armstrong'

create view MonthDeath as

select artist.end\_date\_month

from artist

where artist.name = 'Louis Armstrong'

create view YearDeath as

select artist.end\_date\_year

from artist

where artist.name = 'Louis Armstrong'

create view DeathAfterArm as

select artist.name as name,artist.end\_date\_day,artist.end\_date\_month,artist.end\_date\_year

from artist

where artist.end\_date\_day >

(

select \*

from DayDeath

)

and artist.end\_date\_month >

(

select \*

from MonthDeath

)

and artist.end\_date\_year >

(

select \*

from YearDeath

)

select query.name,query.begin\_date\_day,query.begin\_date\_month,query.begin\_date\_year,query.end\_date\_day,query.end\_date\_month,query.end\_date\_year

from

(

select artist.name as name,artist.begin\_date\_day,artist.begin\_date\_month,artist.begin\_date\_year,artist.end\_date\_day,artist.end\_date\_month,artist.end\_date\_year

from artist

where artist.end\_date\_day >

(

select \*

from DayDeath

)

and artist.end\_date\_month >

(

select \*

from MonthDeath

)

and artist.end\_date\_year >

(

select \*

from YearDeath

)

)query

where query.end\_date\_day =

(

select min(DeathAfterArm.end\_date\_day)

from DeathAfterArm

)

and query.end\_date\_month =

(

select min(DeathAfterArm.end\_date\_month)

from DeathAfterArm

)

and query.end\_date\_year =

(

select min(DeathAfterArm.end\_date\_year)

from DeathAfterArm

)