C130 2018/2019 - soz about document title, can’t rename it

1ai

select m.Title

from movie m

join (

select MovieID, sum(\*)

from DVD\_RENTAL

group by MovieID

) as sq

on m.MovieID = sq.MovieID

ii

~~select m.Title, d.nof\_DVDs~~

~~from movie m~~

~~join dvds d on d.MovieID = m.MovieID~~

~~order by m.Title asc~~

~~--is he asking us to take away the number of movies that have been already rented out?~~

I think this won’t give us what we want – he wants the total number of dvds available for a particular movie across all stores; the above would give us 2 entries for 1 movie if that movie is available in store 1, and store 2. And each entry would just have the number of movies available at that store.

Here's my answer

**SELECT m.title,**

**(SELECT SUM(nof\_DVDS) FROM DVDs d WHERE d.MovieID = m.MovieID) number**

**FROM MOVIE m**

**ORDER BY m.title ASC;**

I agree with this^  
Here’s my answer

**SELECT Title, number**

**FROM (**

**SELECT DISTINCT Title, sum(nof\_DVDs) number**

**FROM MOVIE JOIN (SELECT MovieID, nof\_DVDs FROM DVDs)**

**)**

**ORDER BY Title ASC**

iii select distinct address

from (

select address

from renter

union

select address

from dvd\_store

)

order by address asc

--I think this is what he's after?

I think

iv

select producerName as Name

from (

select \*

from renter r

join dvd\_rental dr on r.memberNo = dr.memberNo

join movie m on dr.movieid = m.movieid

where UPPER(name) like 'K%'

)

group by producerName

having count(\*) > 1

order by Name asc

v

select memberNo

from dvd\_rental dr

where getdate() > DateDue

group by memberNo

having count(\*) > 1

order by memberNo

1b

Contractor(PK:Ssn, FK: divisionName, supervisorSSN)

divisionName references Division.Name

BelongsTo(PK: ContractorSSN, FK: DivisionName) --but how is this guaranteeing total participation? will not null be sufficient?

ContractorSSN references Contractor.Ssn not null

DivisionName references Division.Name not null

WorksOn(PK: ContractorSSN, FK: JobID, Hours)

ContractorSSN references Contractor.Ssn

JobID references Job.JobID

Division(PK: Name)

Task(PK:JobID, Name)

JobID references Job.JobID on delete cascade and not null

Leads(PK: ContractorSSN, FK: JobID, FK: TaskName, date)

ContractorSSN references Contractor.Ssn

JobID references Job.JobID

TaskName references Task.Name

LeadsBoth(PK: ContractorSSN, FK: JobID, FK: TaskName)

ContractorSSN references Contractor.Ssn

JobID references Job.JobID

TaskName references Task.Name

Job(PK: JobID) --yeah idk what else goes in this

Responsible(PK: DivisionName, FK: JobID)

DivisionName references Division.Name on delete cascade

JobID references Job.JobID on delete cascade

========= Question 2 =========

--- 2a ---

ABC->DE

is A extraneous? yes BC->A

is C extraneous? no

.. BC->DE

BC->A

DE->B

CE->AB

is A extraneous? yes CE->B BC->A

is B extraneous? no

.. CE->B

Canonical cover is:

BC->ADE

DE->B

CE->B

--- 2b ---

AB->C

C->A

BC->D

ACD->B

is A extraneous? yes C->A

.. CD->B

D->EG

BE->C

CG->BD

is D extraneous? yes CG->B BC->D

.. CG->B

CE->AG

is A extraneous? yes C->A

.. CE->G

that's it..?

--- 2c ---

Key:{BEF}

R(ABCDEFG)

R1(ABC)

R2(BCD)

R3(DEG)

R4(BCE)

R5(BCG)

R6(CEG)

R7(BEF) since none contain key

--- 2d ---

Key:{BEF}

R(ABCDEFG)

R1(AC) C->A

R2(BCDEFG)

R21(DEG) D->EG

R22(BCDF)

R221(BCD) CD->B

R222(CDF)

--- 2e ---

Key: {AB}

R(ABCDEFGHIJ)

R1(FGH) F->GH

R2(ABCDEFIJ)

R21(DIJ) D->IJ

R22(ABCDF)

R221(BF) B->F

R222(ABCD)

R2221(AD) A->D

R2222(ABC)