

# Structure of Exam

Donnerstag, 4. Februar 2021 09:05

1: Evaluate SQL Queries (10 Points)	- 2 Parts
2: Define SQL Queries (30 Points)	- 3 Parts
3: Create a Star Schema (10 Points)	- 1 Part

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Addresskind	
AKID	Descr
10	Private
20	Work

Address			
AID	ZIP	PID	AKID
1	13297	1	10
2	24188	1	20
3	80900	2	20
4	63452	2	20
5	14187	2	20

Person	
PID	Name
1	Miller
2	Johnson

Name

-----

Miller

```
select Name
from Person P
    inner join Address A on P.PID = A.PID
    inner join Addresskind AK on A.AKID = AK.AKID
where AK.Descr = 'Private'
```

Addresskind	
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20	Work

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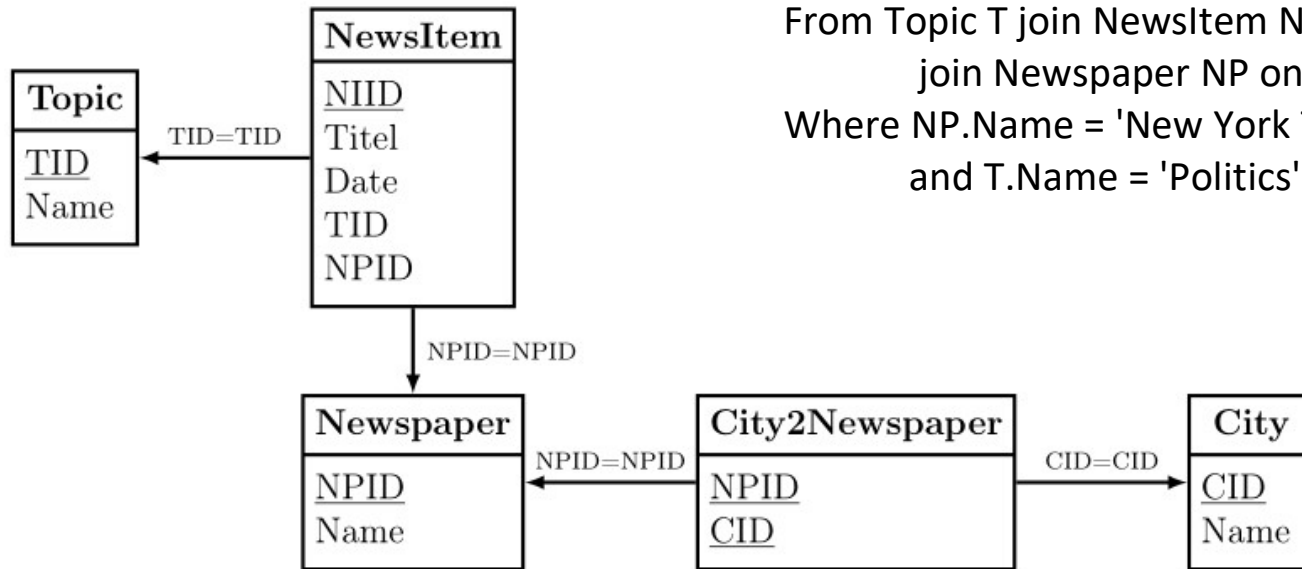
Person	
PID	Name
1	Miller
2	Johnson

```
select Name
from Person P
where (
  select count(*)
  from
    Address A
    inner join Addresskind AK on A.AKID = AK.AKID
  where
    P.PID = A.PID and
    AK.Descr = 'Private'
) > 1
```

Name

-----

no result record

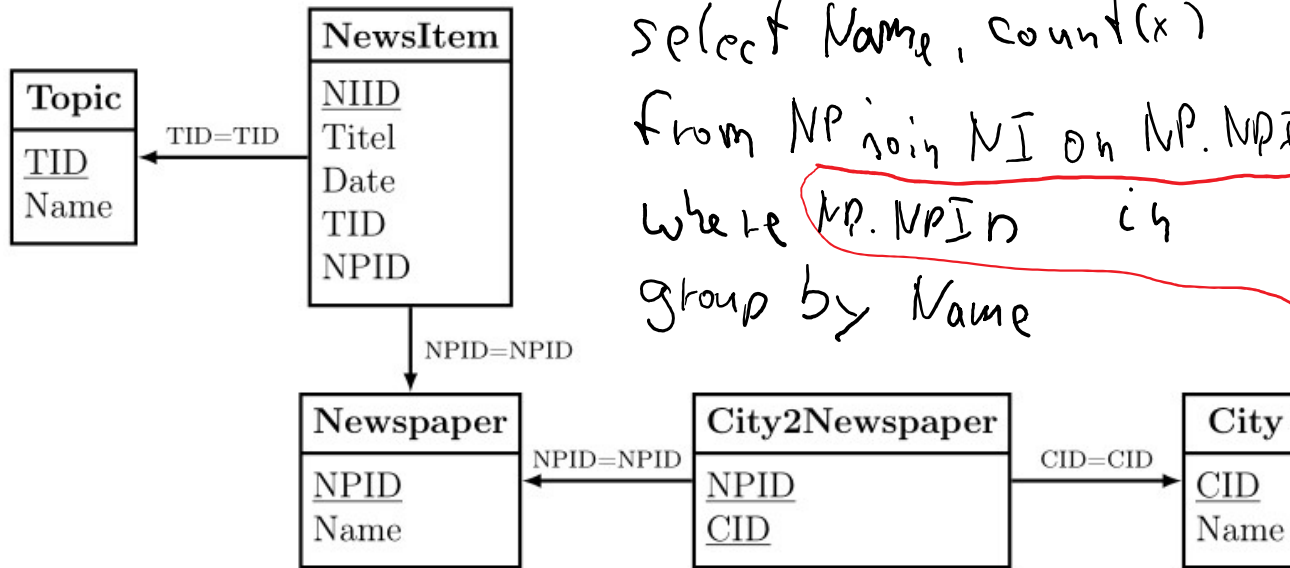


Select title

From Topic T join NewsItem NI on T.TID=NI.TID  
 join Newspaper NP on NI.NPID=NP.NPID

Where NP.Name = 'New York Times'  
 and T.Name = 'Politics';

Title of all news items of topic 'Politics' that appeared in the 'New York Times'.



select Name, count(x)

from NP join NI on NP.NPID = NI.NPID

where NP.NPID in (select NPID

from

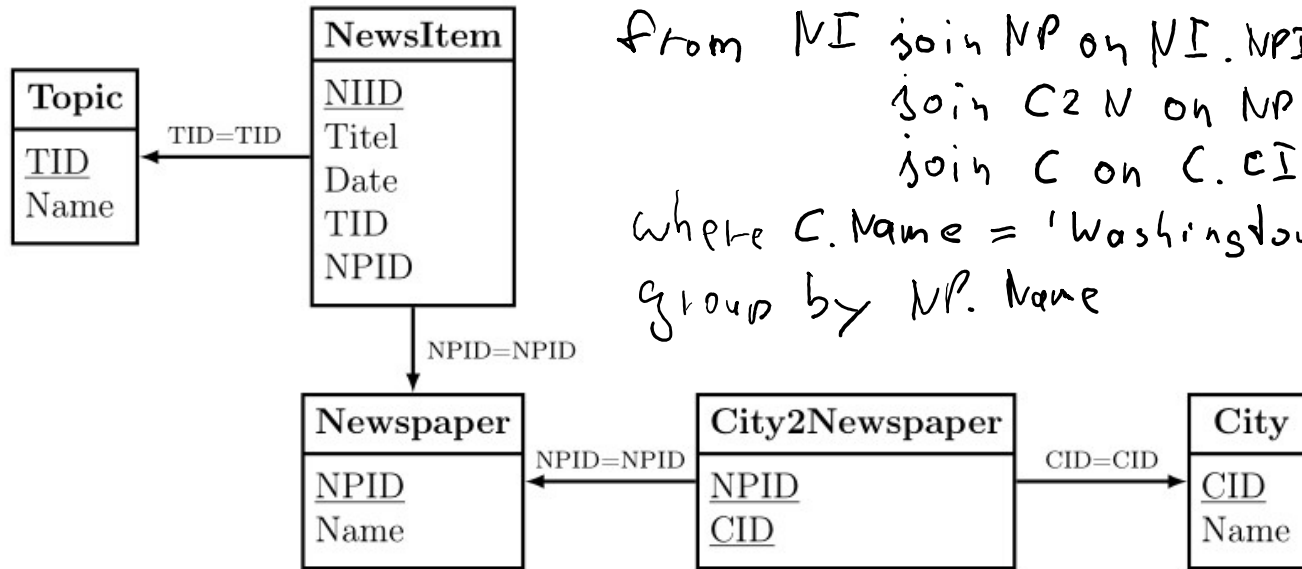
C join C2N

on C.CID =

C2N.CID

where Name = 'Washington')

Name of all newspapers and number of news items, that appeared within them. Only newspapers from 'Washington' should be regarded.



select NP.Name, count(x)

from NI join NP on NI.NPID = NP.NPID

join C2N on NP.NPID = C2N.NPID

join C on C.CID = C2N.CID

where C.Name = 'Washington'

group by NP.Name

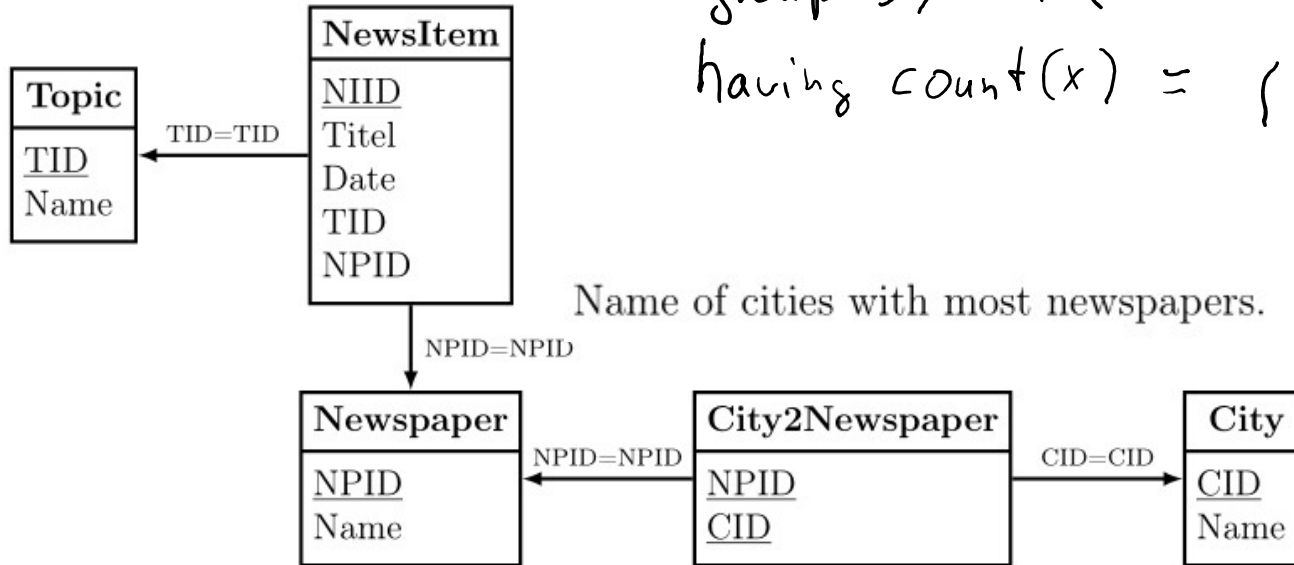
Name of all newspapers and number of news items, that appeared within them. Only newspapers from 'Washington' should be regarded.

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Select Name  
from C join C2N on C.CIN = C2N.CIN  
group by Name  
having count(x) =

select max(cc)  
from  
(select count(\*) as cc  
from C2N  
group by CIN)



Name of cities with most newspapers.

Create a star schema for the following domain: **Production**

