Structure of Exam

Donnerstag, 4. Februar 2021 09:05

1: Evaluate SQL Queries (5 Points)	- 2 Part
2: Define SQL Queries (25Points)	- 3 Parts
3: Create a Star Schema (10 Points)	- 1 Part
4: Evaluate ML Model (10 Points)	- 1 Part

Evaluate SQL Query 1

Montag, 27. Januar 2020 18:54

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

```
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'
```

Evaluate SQL Query 2

Montag, 27. Januar 2020 18:54

Addresskind	
AKID	Descr
10	Private
20	Work

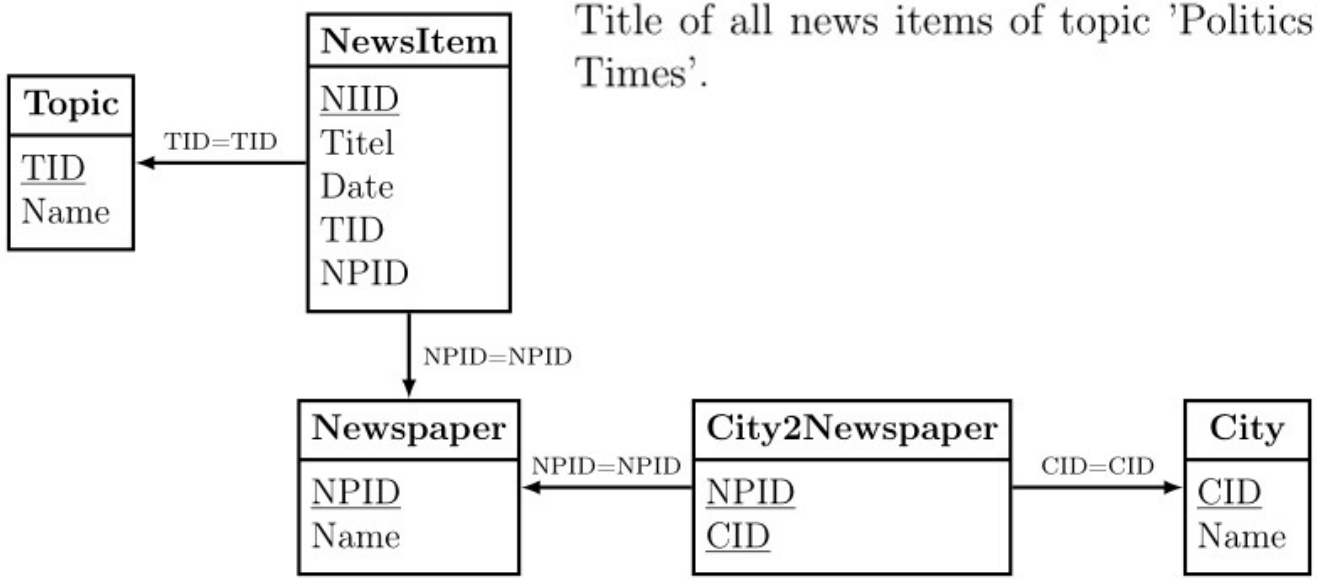
Address			
AID	ZIP	PID	AKID
1	13297	1	10
2	24188	1	20
3	80900	2	20
4	63452	2	20
5	14187	2	20

Person	
PID	Name
1	Miller
2	Johnson

```
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
```

Define SQL Query 1

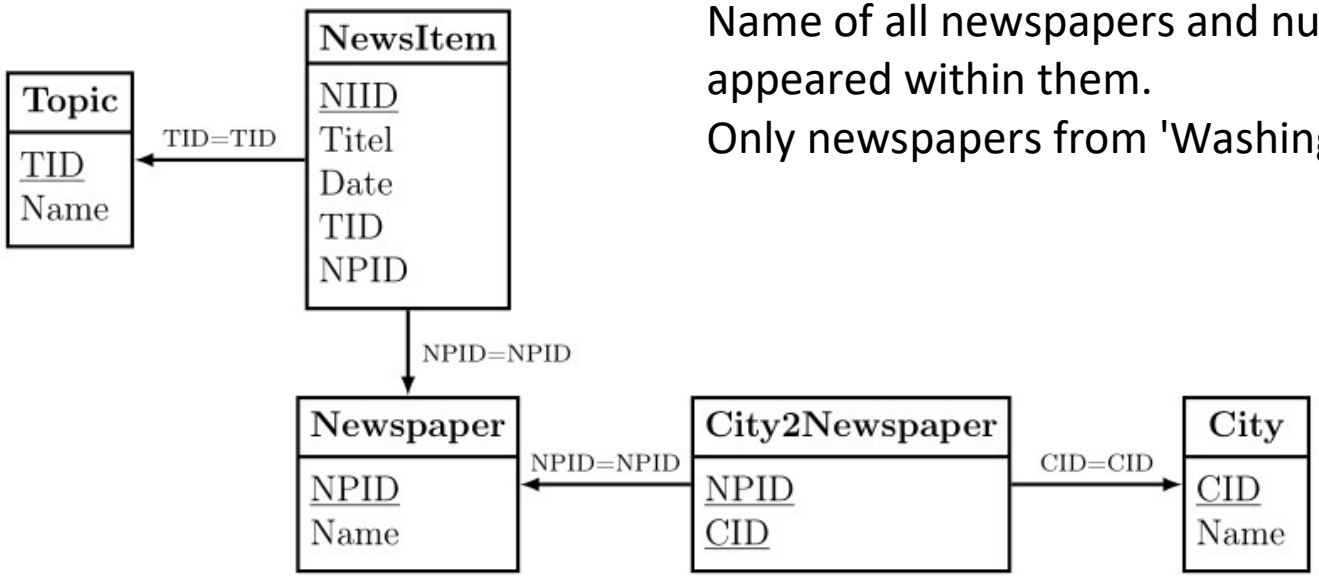
Montag, 27. Januar 2020 18:55



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

Define SQL Query 2a

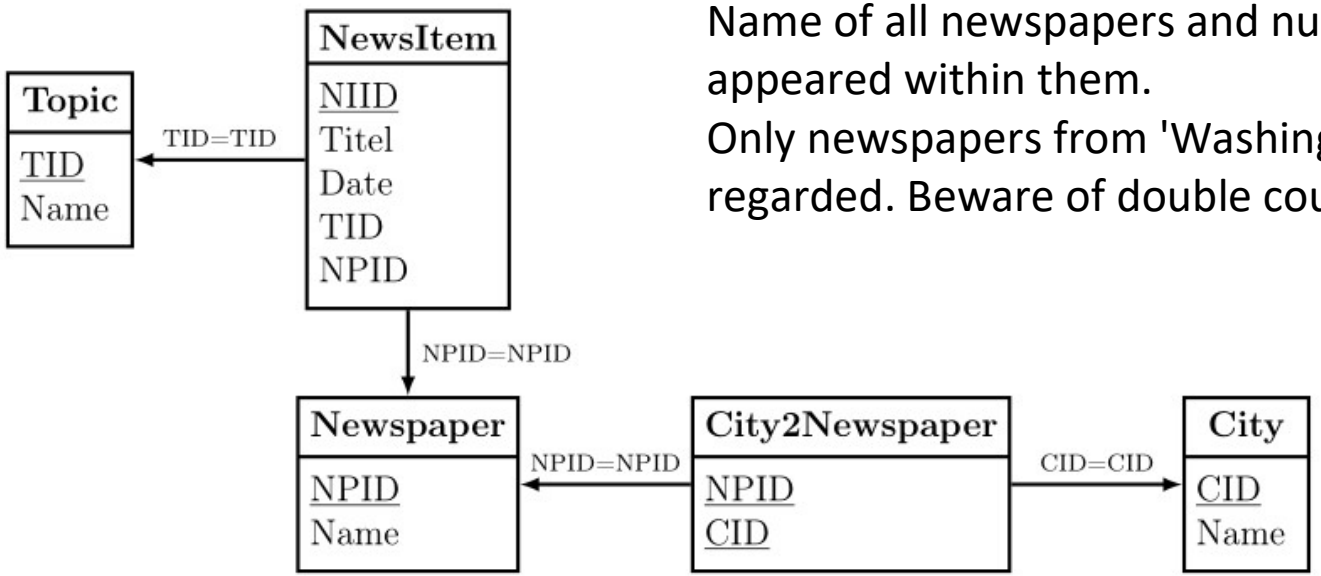
Montag, 27. Januar 2020 18:55



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

Define SQL Query 2b

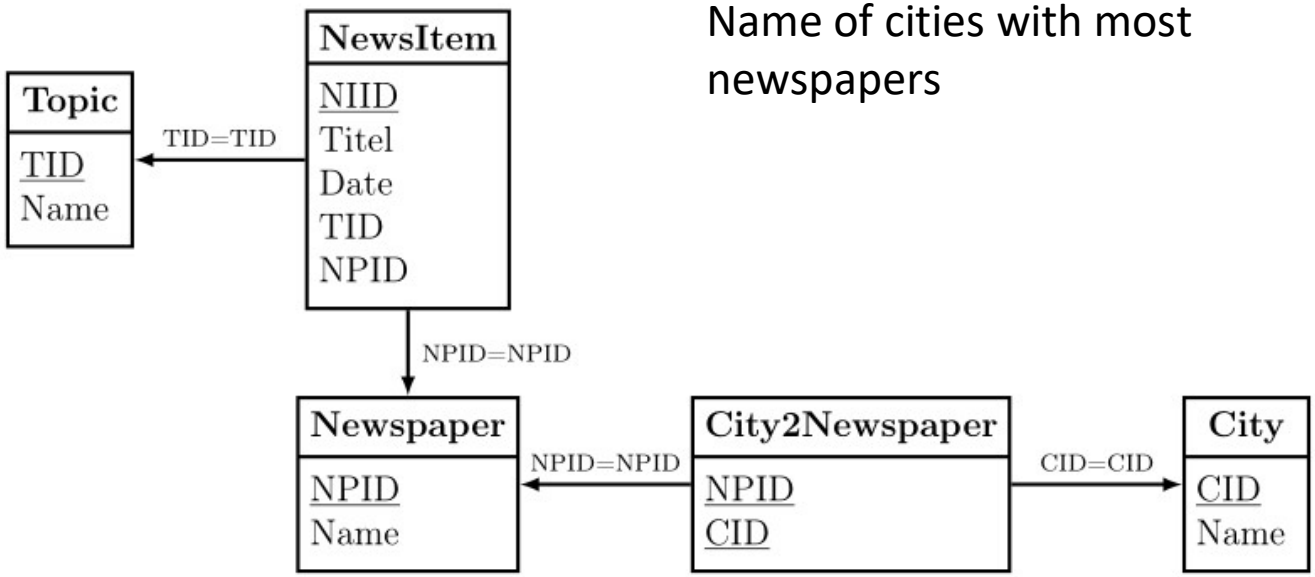
Montag, 27. Januar 2020 18:55



Name of all newspapers and number of news items, that appeared within them.
Only newspapers from 'Washington' and 'New York' should be regarded. Beware of double counting the same newspaper.

Define SQL Queries 3

Montag, 27. Januar 2020 18:55



Name of cities with most newspapers

Create a Star Schema

Mittwoch, 8. Juli 2020 11:03

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

- The model should contain a time dimension and two further dimensions, the first of which should contain at least a three-level hierarchy, and the second at least a two-level hierarchy.
- Provide one fact table with at least one measure.

Evaluate ML Model

Montag, 10. Januar 2022 10:51

- Understanding Recall, Precision, Accuracy
- Understanding Confusion Matrix
- Understanding Scoring Classifier
- Understanding ROC Curve