

2.2b

City
Capital
River

is capital
located at

Capital in Route

City Union
city is capital

~~optional~~ → River

?C	?R
Wien	Leitha
Söding	Elbe
Haarlem	Donau
Vien	
Madrid	
?C	
Haarlem	
Vien	
Madrid	

?X
Haarlem
Donau
Esp.

Jan 8-10:20

Full
=> outer join

~~optional~~

Select ?C ?R ?X
Where { ?C locatedAt R }

OPTIONAL { ?X capital ?C }

UNION
Select ?C ?X ?R
Where { ?X capital ?C
OPTIONAL { ?C locatedAt ?R }
Filter (!BOUND(?R))

Söding	Leitha	Österr.
Wien	Donau	Wien
Wien	Donau	Wien
Madrid		Esp.
Wien	Donau	Österr.
Wien	Donau	Wien

→ siehe ML

Jan 8-10:26

Sel : nomelfom :

```

      π [ ... ]
        |
      G [ ... ]
        |
      X
      / \ / \ / \
    
```

→ union

→ Mysia: - ~~SQL~~ : MINUS
NOT EXISTS

Konjunktive Mysia

Jan 8-10:47

Select	?C	?X	?R	Wien	Öster.	Dona
				Wien	Wien	Dona
				Kaasa	E	-
Where	{ ?C	a City		Söthy	-	Loike
				Wien	-	-

OPTIONAL { ?X optional ?C }

OPTIONAL { <E localdata + ?R }

} Filler (Bund (?X) || Bund (?R))

Jan 8-10:51

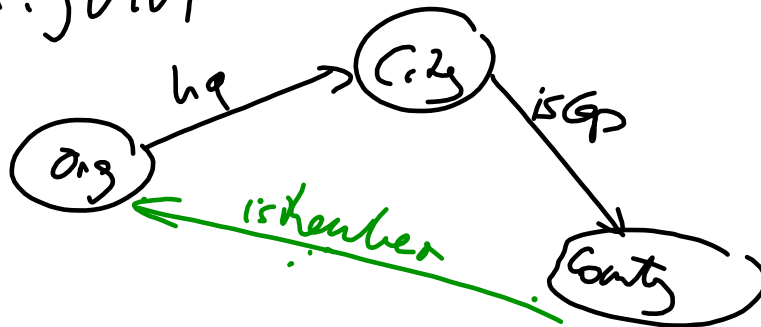
select ?C ?X ?R Wien öster. Dona
 Wien Wien Donau
 Kana E -
 Where { ?C a City ~~folgt~~ - Leine

OPTIONAL { ?C loadedAt ?R }
 } Filler!
 (Band (?R))
 not well-designed

Where { ?C a :City OPTIONAL { ?C ?P ?V }
 Filter (?P = loadedAt) }

Jan 8-11:09

zshk. jöih



Jan 8-11:22

select ?C ?P ?CP

where ?C a:Country ; :pop ?P ;
capital/population ?CP

2500
QVL: seg. graph. population
trees: PC/population

Jan 8-11:37

?C a City ; ^capital ?X

?C a City ; pop > 1000000 ?P
Filter (?P > 1000000)

?P 4 person ; child+ ?C

Jan 8-11:39