NDBI040: Big Data Management and NoSQL Databases

http://www.ksi.mff.cuni.cz/~svoboda/courses/2016-1-NDBI040/

Practical Class 10

SPARQL

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Charles University in Prague, Faculty of Mathematics and Physics **Czech Technical University in Prague**, Faculty of Electrical Engineering

- Select all students
- Return personal numbers, first and last names

?n	?f	?I
2	Martin	Svoboda
4	Tomas	Knap
6	Jakub	Klimek

- Select all courses with codes starting with NPRG
 - Use regex(string, pattern) function
- Return course codes and titles
- Order the courses using their titles

?c	?t
NPRG030	Programming I
NPRG036	XML Technologies

- Find students and their e-mail addresses
 - Note that e-mail addresses might be missing
- Return personal numbers and e-mails

?n	?e
2	svoboda@uni.cz
4	knap@uni.cz
6	

- Select students, their e-mails, and web pages
 - Note that both e-mails and web pages might be missing
- Return personal numbers, e-mails, and web pages

?n	?e	?w
2	svoboda@uni.cz	http://www.uni.cz/~svoboda/
4	knap@uni.cz	
6		http://www.uni.cz/~klimek/

- Select courses that are taught on Mondays or Fridays during winter semester 2016/17
- Return course references and codes

?p	?c
s:course7	NPRG036
s:course5	NSWI096

- Select courses that are <u>not</u> taught on Mondays or Fridays during winter semester 2016/17
- Return course references and codes

?p	?c
s:course3	NPRG030

- Select courses that are <u>not</u> taught on Mondays or Fridays during winter semester 2016/17
- Return course references and codes
- Do not use NOT EXISTS and nor MINUS constructs

?p	?c
s:course3	NPRG030

- Return average study results for all students
 - Assume only courses in winter semester 2016/17
- Ignore enrollments with undefined results
- Describe students by their full names
- Include students with at most 10 courses only