

SD05

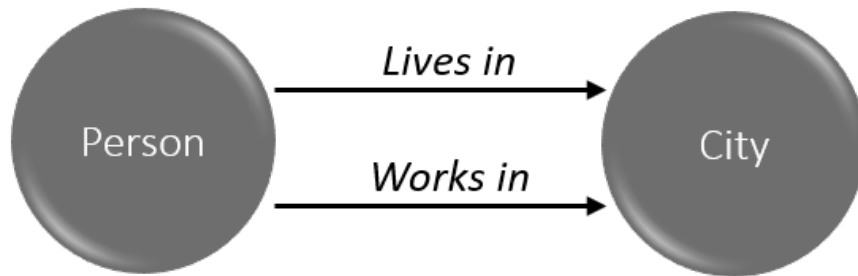
Intuitive

Querying of a Graph Database

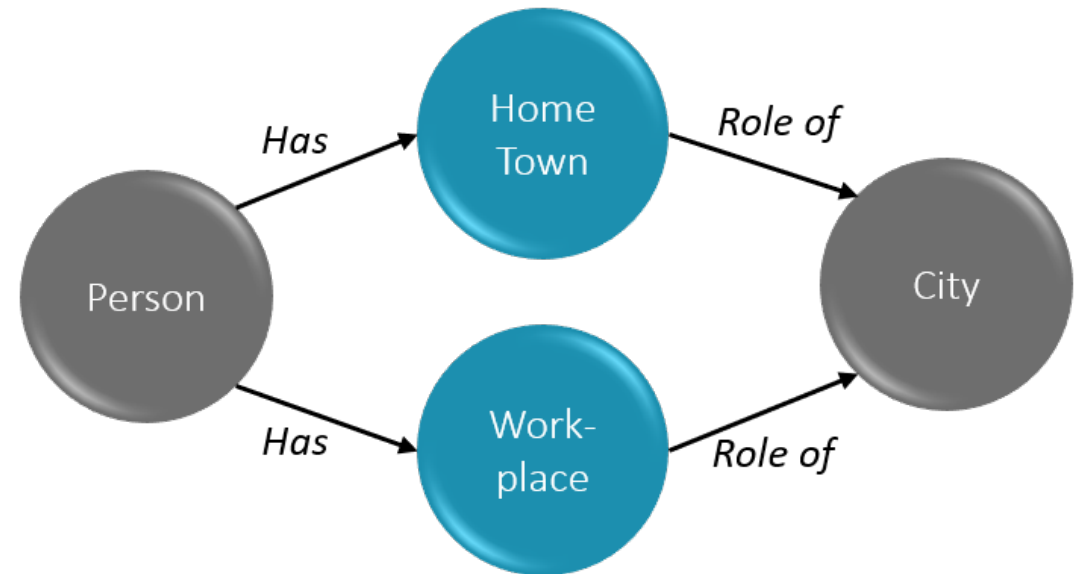


Graph database

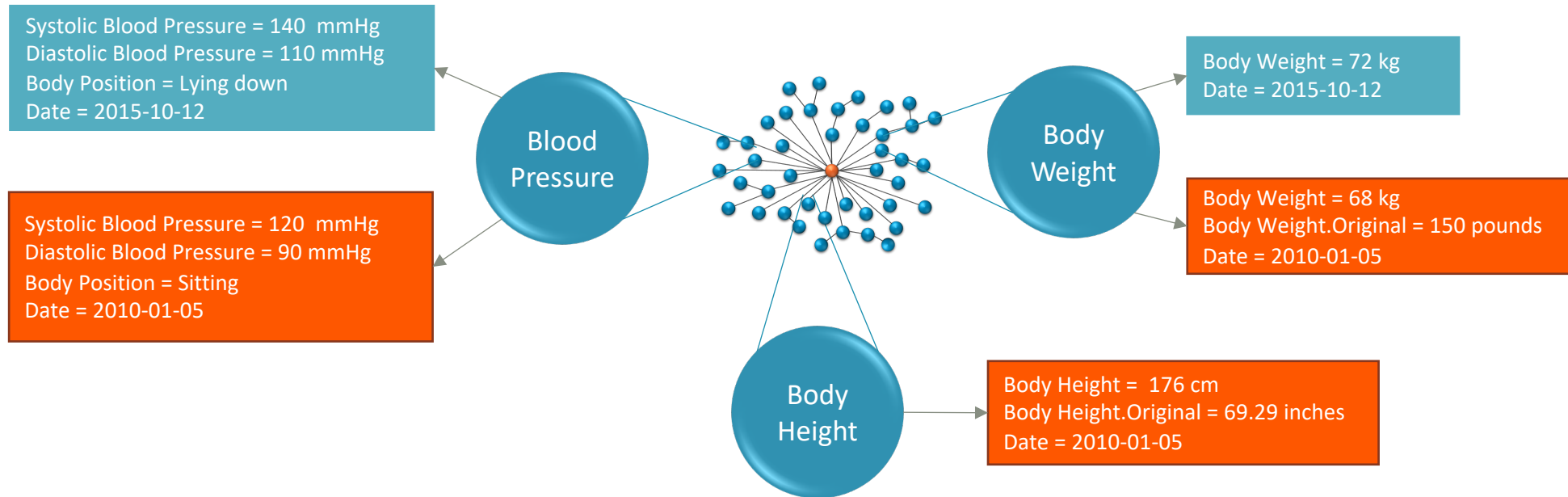
Classic Property Graph



The Capish Version of a Property Graph



Messages



Asking the Right Question

What Patients?

Events

Adverse Event	
AE - Term	Hols
Headache	715
Pneumonia	61
Abdominal discomfort	0
Abdominal distension	0
Abdominal hernia	0

Patients

Adverse Event	
AE - Term	Pats
Headache	561
Pneumonia	59
Abdominal discomfort	0
Abdominal distension	0
Abdominal hernia	0

Events

Adverse Event	
AE - Term	Hols
Headache	715
Pneumonia	61
Pyrexia	24
Respiratory tract infection	19
Insomnia	16

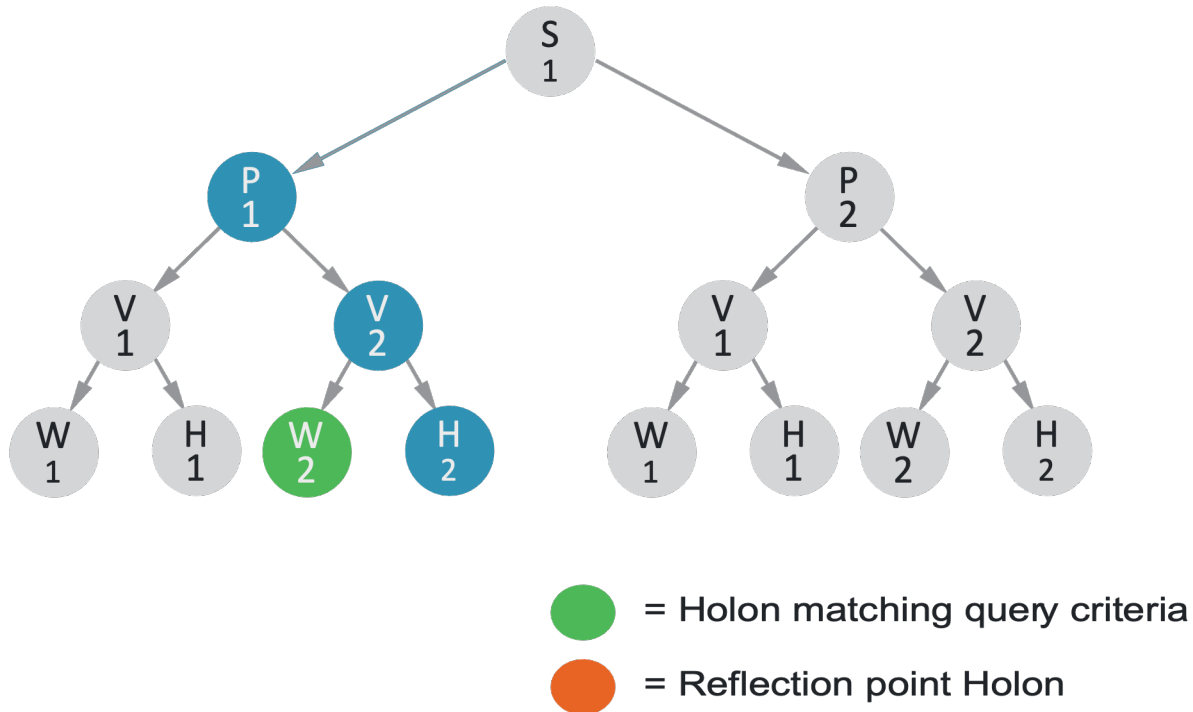
What Events?

Patients

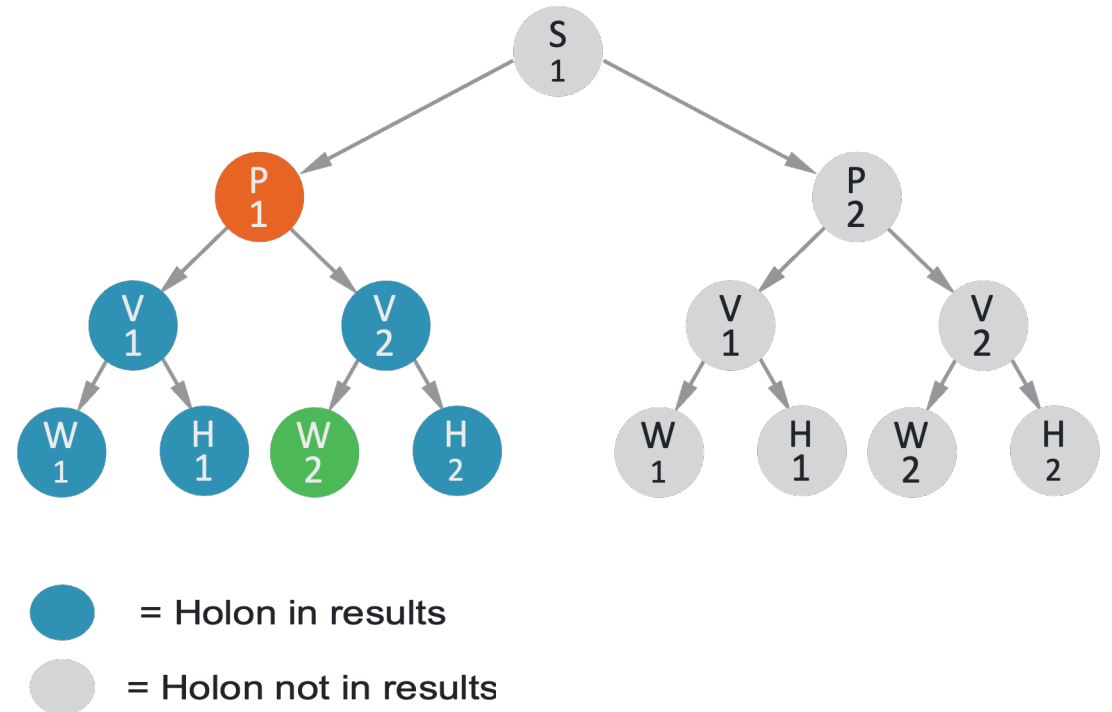
Adverse Event	
AE - Term	Pats
Headache	561
Pneumonia	59
Pyrexia	17
Respiratory tract infection	16
Insomnia	15

Querying a Graph Database

Without reflection



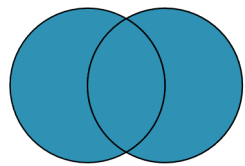
With reflection in P



One Field

OR

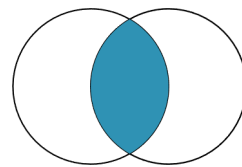
Adverse Event	
AE - Term	Pats
Headache	561
Pneumonia	59
Pyrexia	17
Respiratory tract infection	16
Insomnia	15



599 Patients

AND

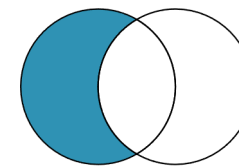
Adverse Event	
AE - Term	Pats
Headache	21
Pneumonia	21
Angina pectoris	1
Bursitis	1
Candidiasis	1



21 Patients

AND NOT

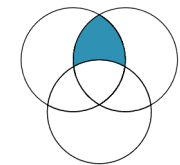
Adverse Event	
AE - Term	Pats
Pneumonia	38
Headache	0
Dyspnoea	2
Lung neoplasm malignant	2
Respiratory tract infection	2



38 Patients

AND & AND NOT

Adverse Event	
AE - Term	Pats
Headache	20
Pneumonia	20
Respiratory tract infection	0
Angina pectoris	1
Bursitis	1

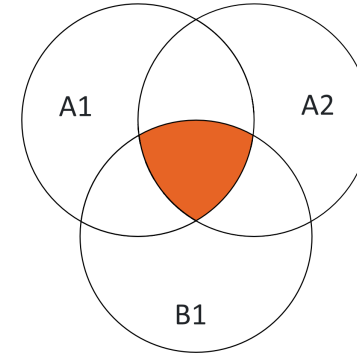


20 Patients

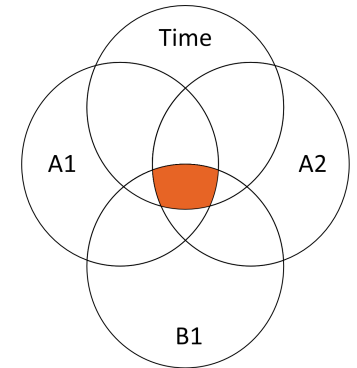
Multiple Fields

🎯 Adverse Event	
AE - Term	Q Pats ▼
▼ Headache	5
▼ Pneumonia	5
Constipation	1
Depression	1
Influenza	1

🎯 Medication	
Meds - Drug	Q Pats ▼
▼ Paracetamol	5
Drug A	3
Potassium chloride	2
Run-In Drug	2
Acetylsalicylic acid	1



🎯 Adverse Event		&	🎯 Medication	
AE - Term	Q Pats ▼		Meds - Drug	Q Pats ▼
▼ Headache	2		▼ Paracetamol	2
▼ Pneumonia	2		Drug A	2
Influenza	1		Acetylsalicylic acid	1
Abdominal discomfort	0		Bisacodyl	1
Abdominal distension	0		Bromazepam	1



How can you intuitively work
with database queries in a
graph database?

DEMO

Thank you!

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