

SPARQL Exercises

SPARQL Exercise 1

1. You have the following triple store
<http://ImaginaryTripleStore.com>:

A X B
C X B
B X D
B Y E
F Y B
F X D
F Y E
E X D
G X E

2. You have the following SPARQL
statement:

```
SELECT ?x
FROM
<http://ImaginaryTripleStore.com>
WHERE
{F ?p ?o .
 ?o ?p ?x}
```

3. Solution

3.1 List all items that fulfil “F ?p ?o”. Place them
below the where clause.

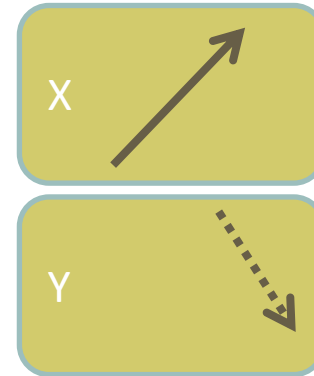
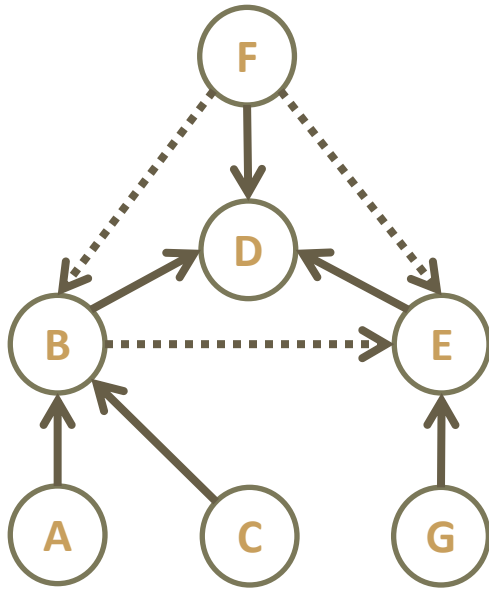
F	?p	?o	.	?o	?p	?x
F	Y	B				
F	Y	D				
F	Y	E				

3.2 List all items that fulfil “?o ?p ?x” where ?o is B, D,
or E and ?p is Y. Place them below the where clause.

F	?p	?o	.	?o	?p	?x
F	Y	B		B	Y	E
F	Y	D				
F	Y	E				

3.3 List all items that were placed under “?x”

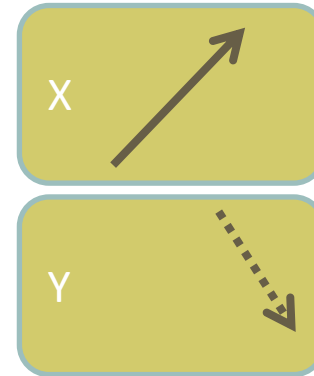
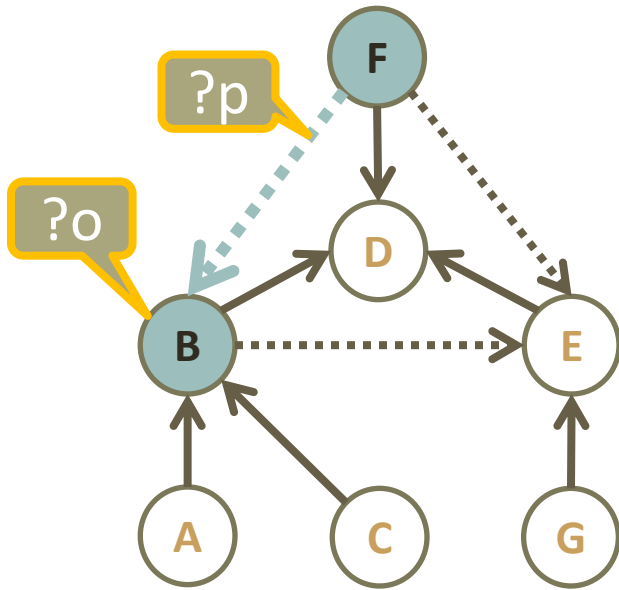
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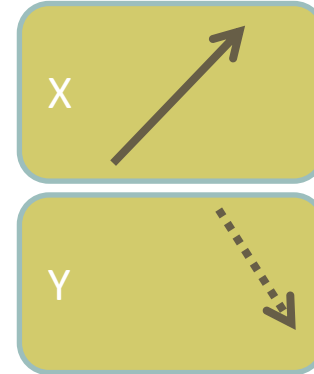
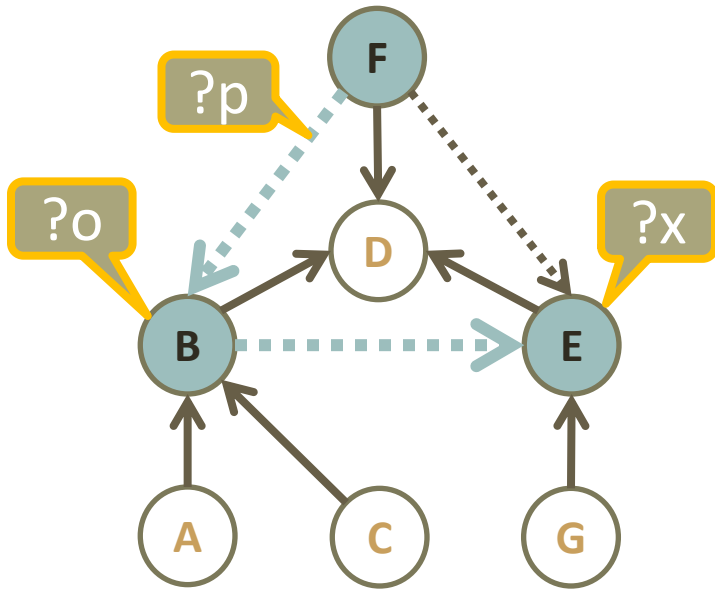
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SPARQL Exercise 2

1. You have the following triple store
<http://ImaginaryTripleStore.com>:

A X B
C X B
B X D
B Y E
F Y B
F X D
F Y E
E X D
G X E

2. You have the following SPARQL
statement:

```
SELECT ?s
FROM
<http://ImaginaryTripleStore.com>
WHERE
{?s Y ?o .
 ?o X D}
```

3. Solution

3.1 Look at the 2nd triple from the where clause first.
Find all triplets that use X as a predicate where the
object is D (fulfils “?o X D”). Place them below the
where clause:

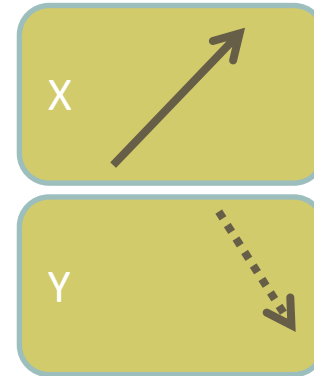
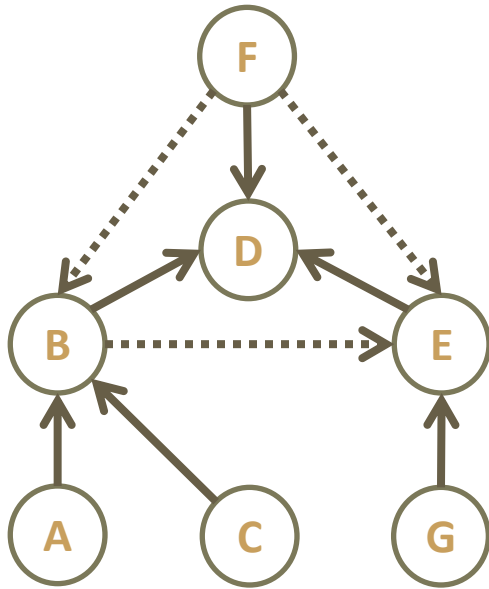
?s	Y	?o	.	?o	X	D
		B		B	X	D
		F		F	X	D
		E		E	X	D

3.2 The subject of the above triplets are: B, F, and E.
Now, look at the first triplet of the where clause. Look
for all triplets that have an object that is B, F, or E and
that have a predicate Y (fulfils “?s Y ?o”). Place those
triplets below the where clause:

?s	Y	?o	.	?o	X	D
F	Y	B		B	X	D
				F	X	D
F	Y	E		E	X	D
B	Y	E		E	X	D

3.3 List all items that were placed under “?s”

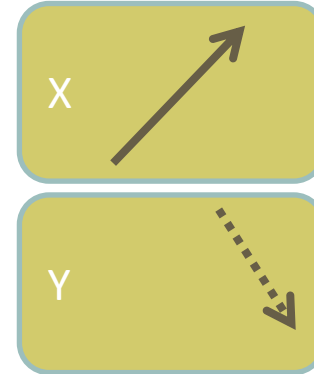
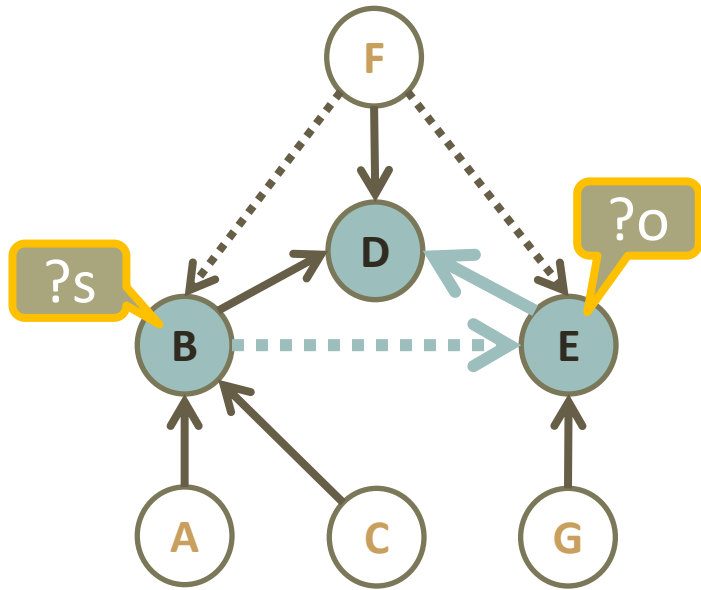
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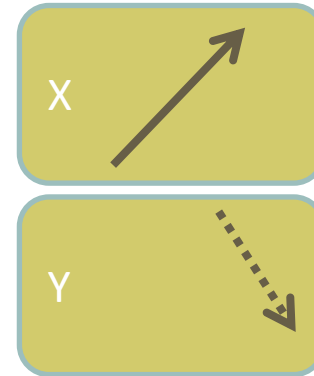
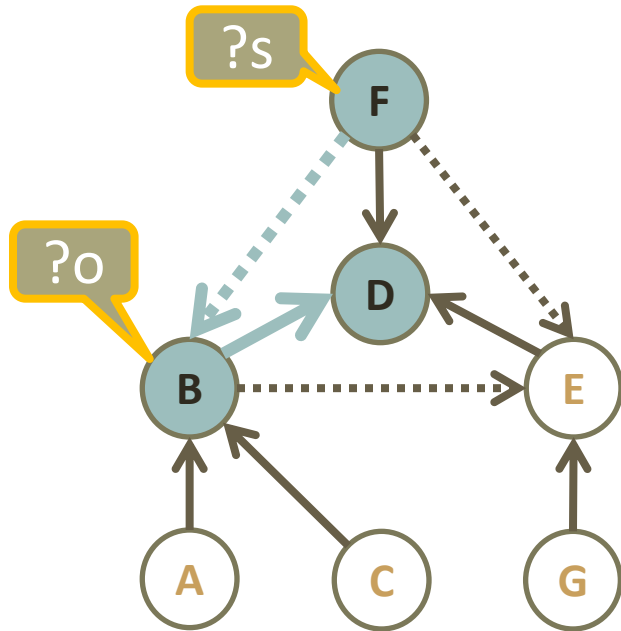
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