Paper:
Query Optimization in Information Integration

Using the following data (instead of the data given in the paper), discuss how the three techniques, materialization, subqueries, and wrapper execute the query below.

```
...  ... 
<X>  <Z>  
   <A>a3</A>  <C>c3</C>  
   <B>b1</B>  <W>  
   <Y>  <A>a2</A>  
      <C>c1</C>  <C>c2</C>  
   </Y>  </W>  
</X>  
...  ...

Source 1  Source 2
```

Figure 1: Part of information in two data sources.

Query:

```
select r.B, s.C
from r, s
where r.A = s.A
```