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Homework5

There are three XML documents: [purchaseorders.xml](#), [products.xml](#) and [customerinfo.xml](#). These documents are also available in DB2 sample database as purchaserorder(porder), product(description), customer(info).

(Some example queries from course lectures can be found [XQueryExamples.zip](#).)

You will write XML queries with Oxygen XML or DB2.

(Please use [XPath/XQuery builder view](#) in Oxygen to edit and run the queries, otherwise you may run into a sequence error.)

Query 1. XPath (6 points):

- Using customerinfo.xml, write an XPath query to return the name(s) of customers who live in the city "Toronto" and have an assistant. Return names as text only.
- Using purchaserorder.xml, write an XPath query to return other items in an unshipped purchase order placed on "2006-02-18", which contains an item with partid "100-100-01".

Query 2. XQuery (4 points): Write an XQuery to return the total cost (total quantities from multiple orders multiplied by the price) for each unique product (represented by partid or pid) in all purchase orders, sorted by partid. The result format should look like:

```

<totalcost partid="100-100-01">139.86</totalcost>
<totalcost partid="XXXXXXXX">YYYY</totalcost>
...

```

(Hint: You may want to group by partid using purchaseorders.xml and find the price for each product using products.xml.)

Submission: please zip your query files and results (as text files or screenshots) and submit at blackboard.



customerinfo.xml (2k)	Fusheng Wang, Nov 24, 2020, 9:07 AM	v.3	
products.xml (1k)	Fusheng Wang, Nov 24, 2020, 9:07 AM	v.3	
purchaseorders.xml (3k)	Fusheng Wang, Nov 24, 2020, 9:07 AM	v.3	

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