# Advanced Databases

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## Part A

a)

Directed tree / Hierarchical Tree Model of students.xml.

b)

DTD for teachers.xml.

c)

Possibility of writign a DTD for students.xml.

## Part B

a) *Find all students who study "Advanced Databases" this year.*

XPATH

b) *Find all teachers who teach "Advanced Databases" this year.*

XPATH

c) *How many years has Professor Cristea been teaching "Advanced Databases" (at Durham)?*

XQUERY

d) *Find all students in year 3 currently taught by Alexandra.*

XQUERY

e) *How many teachers and how many students are kept in the databases where the last name is not known?*

ZQUERY