# Practical 9.2 - XML

*To be done in-class*

Assume you have been hired to build a digital version of the ODT “Pubs and Clubs” page. This feature lists upcoming band appearances in local clubs. On the I: drive you will find an XML file containing information about the (imaginary) gigs scheduled in Dunedin in the next few months. You will need to explore the XML schema used in this document and build an application to demonstrate the following queries. XML parsing code is fussy and repetitive, so make sure you use good modularity and parameterisation to minimise code duplication.

1. List all the upcoming gigs in a DataGridView. Display the band's name and genre, the venue and the date and time of the gig.
2. List all the upcoming gigs whose genre is "Hard Rock".
3. List only those gigs scheduled in the **current** month. Determine this dynamically from DateTime.Now. (That is, if I run your application in May, I will see different output than if I run your application in June.)
4. List all the band members, with their instruments and roles, for the group Alabama Shakes. (You may use a listbox or second DataGridView for this. It is not necessary to modify the columns of your existing DataGridView programatically.)
5. Add a new gig, supplying values for band name, genre, venue, date and time. You may hard-code the new data values, or provide data entry fields, as you prefer. After adding, test to make sure that your new gig displays correctly.

Helpful DataGridView resources:

Core documentation at <https://msdn.microsoft.com/en-us/library/k39d6s23%28v=vs.110%29.aspx>

Additional resource: [DataGridView FAQ](https://www.google.co.nz/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0ahUKEwiG3fj_yYfMAhVKjpQKHX2NB9oQFggbMAA&url=http%3A%2F%2Fdownload.microsoft.com%2Fdownload%2F5%2F6%2F4%2F5646742C-3EB7-48F7-BFB3-CC295D618CF9%2FDataGridView%2520FAQ.doc&usg=AFQjCNHE0C79uGnD14VrXWm07wvfhzPWUQ&sig2=OpHcvxNrGE0R9_WejjaQLg&cad=rja) from Microsoft.