Oblig 5 – Datamodellering & Databasesystemer

Oppgave 1

- 1. //creator
- 2. //CD/Disc/Track[../../title/text()='Greatest Hits 1' and ../../creator/text() ='Queen']
- 3. //CD[./Disc/Track/WrittenBy/text()='Roger Waters']
- 4. //CD/Disc[1]/Track[3]/Title[../../../creator/text()='Pink Floyd' and ../../../title/text()='The Wall']/text()
- 5. //CD/Disc/Track[./WrittenBy/text()='Roger Waters' and count(./WrittenBy) > 1]
- 6. //CD[./Disc/Track/Title/text()[contains(.,'Girls')]]
- 7. //CD/Disc/Track[contains(@duration,'5:') and ./Lyrics/text()[contains(.,'love')]]
- 8. count(//CD/Disc/Track[./Title='Play The Game']/Lyrics/text())
- 9. //CD[./creator/text()='Queen']/Disc/Track[./WrittenBy/text() != 'Freddie Mercury' and ./WrittenBy/text() != 'Queen']/Title/text()
- 10. //CD[./title='The Wall']/Disc[2]/Track[./Title='Vera']/following-sibling::Track

Oppgave 2

```
$xml file = file get contents("http://www.aftenposten.no/rss/?")
kat=nyheter uriks");
 $doc = new DOMDocument;
 // Ideally, we would not do this; instead we'd use $doc->loadXML($xml file)
 // aftenposten.no was not well-formed XML. Loading it as HTML (which does not
require
 // For some reason, it also works by manually saving the xml and opening it from
ile.
 $doc->loadHTML($xml file);
  $xpath = new DOMXPath($doc);
 $title = $xpath->query("//channel/title")->item(0)->textContent;
 $item_count = $xpath->evaluate("count(//channel/item)");
?>
<html>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <head>
            <title><?php echo $title; ?></title>
            <style type="text/css">
                  body
                  {
                        background: #DDD;
                  div#wrapper
                        background: #ECECEC;
                        width: 800px;
                        margin: auto auto;
                  }
                  div#wrapper .item
                        color: #555;
                        width: 390px;
                        padding: 5px;
                        position: relative;
                        float: left;
                        border-bottom: 1px solid #CCC;
                        min-height: 350px;
                  }
                  .item a.readmore
                        color: orange;
                        text-decoration: none;
                  .item .pubdate
```

```
{
                             font-size: small;
                             margin-bottom: 0px;
                      }
              </style>
       </head>
       <body>
       <h1><?php echo $title; ?></h1>
       <div id='wrapper'>
       <?php
         $i = 1;
         while($i <= $item_count)</pre>
          $item_title = $xpath->query("//channel/item[$i]/title")->item(0)->textContent;
          $item_description = $xpath->query("//channel/item[$i]/description")->item(0)-
>textContent;
       $publication_date = $xpath->query("//channel/item[$i]/pubDate")->item(0)-
>textContent;
           $url = $xpath->query("//channel/item[$i]/link")->item(0)->textContent;
$img = $xpath->query("//channel/item[$i]/enclosure[@type='img/jpg']/@url");
            // Create element for displaying this item
echo "<div class='item'>";
             echo "<h2>" . $item_title . "</h2>";
            // Print image (if any)
if($img->length > 0)
                 echo "<img src='".$img->item(0)->textContent."' />";
             echo "" . $item description . "";
            // Print read more link
echo "<a href='".$url."' class='readmore'>Read more</a>";
            echo "Published: ".$publication_date."";
            echo "</div>";
            $i++;
      ?>
    </div>
  </body>
:/html>
```