

ASSIGNMENT 6

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Question 1

utdgrades.com uses JSON data, which can be found on the creator's github page for public use. A loading script (javascript) is used to move the JSON files into PostgreSQL. HTML is used in writing the frontend interface. See <https://github.com/bharatari/utd-grades> for more details.

Intuit QuickBooks data requests are made using a custom version of XML (qbXML). The QB application communicates with the request processor and desktop user with qbXML. The QB interface uses HTML and javascript.

Question 2i

```
select s.id
from student as s
left join advisor as a
on s.id = a.s_ID
where a.s_ID is NULL
```

ID
19991
54321
55739
70557

Question 2ii

```
select cnt.name, cnt.ID
from (
  select count(distinct i.name) as numProf, c.dept_name, i.name, i.ID
  from course as c
  natural join instructor as i
  group by c.dept_name) as cnt
where numProf = 1
order by cnt.name
```

name	ID
Crick	76766
Kim	98345
Mozart	15151