

Assignment 6

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1. Look up websites containing the following data representations:

a) Using JSON

b) Using XML

- Analyze the websites in terms of structure and composition. Name the technology/methods use for creating the web database.
 - a) Using JSON – TwitterAPI. It provides access to Twitter data in JSON format. This is built using RESTful API architecture, which allows access to data using HTTP requests.
 - b) Using XML – The W3C website uses XML for its data representation for standards and specs using XHTML. The relevant technologies here are XML and XSLT, which helps with transforming XML

2. SQL exercise:

- i. Express the following query in SQL using no subqueries and no set operations. (Hint: left outer join)

select ID from student except select s_id from advisor where i_ID is not null

select s.ID

from student s left outer join advisor a ON s.ID = a.s_id

where i_ID IS null;

- ii. Using the university schema, write an SQL query to find the names and IDs of those instructors who teach every course taught in his or her department (i.e., every course that appears in the course relation with the instructor's department name). Order result by name.
- select i.name, i.id from instructor i, teaches t, course c where i.id = t.ID and c.course_id = t.course_id and i.dept_name = c.Dept_name group by i.name