JavaScript Object Notation

- nested data
- less verbose than [[XML]]
 - JSON Data Model
 - Data exchange format for semi-structured data
 - Not as verbose as XML (especially for arrays)



■ Popular format (e.g., Twitter)

```
{"students:"[
    {"id": 1, "courses":[
        {"id":"INF.01017UF", "name":"DM"},
        {"id":"706.550", "name":"AMLS"}]},
    {"id": 5, "courses":[
        {"id":"706.520", "name":"DIA"}]},
]}
```

JSON in [[SQL]]

- JSON can be used as datatype
 - JSON (text)
 - JSONB (binary)
- built-in functions for creating JSON from table
 - bidirectional

- specialized operators for JSON tree traversal and data extraction
 - -->..... get array element
 - -->>... get array element as text

SELECT Fname, Lname,
 Doc->students->>id
 FROM Students

- built-in functions
 - ison each
 - ...