

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

```
SELECT row_to_json(t) FROM
  (SELECT Fname, Lname
   FROM Students) t
```

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

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

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- built-in functions
 - json_each
 - ...