Full name:

Be concise! Think first, write later.

1. [/10] State 3 ways of how a CSV on the Web descriptor can be located based on the URL of the table

2. [/10] Describe pulse-code modulation in the context of digital audio

3. [/10] Give an example of text in Markdown. What is the main goal of Markdown?

4. [/10] Describe principal ways of validating arrays in JSON Schema

5. [/5] Describe the RGBA color model

6. [/5] Describe the INI file format and its usage

7. [/5] On an example explain how value order in array can be retained in JSON-LD

8. [/5] Describe 3 JSON Schema validation keywords

60-75 => 3, 75-90 => 2, 90-100 => 1

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9. [/5] Explain XPath axis attribute::
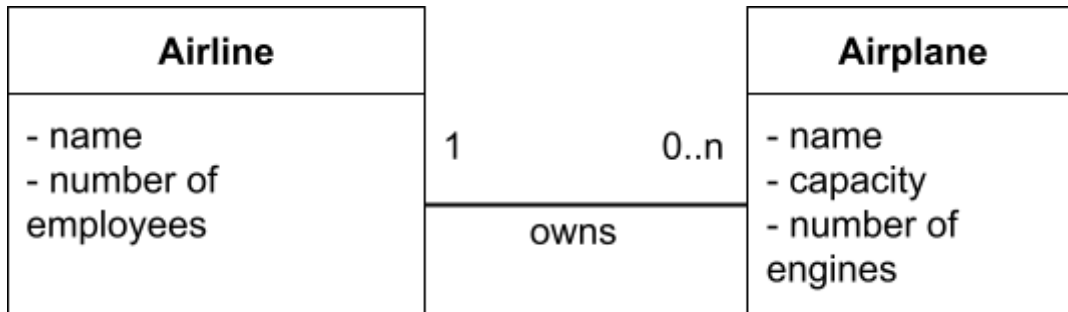
10. [/5] Explain the difference between a simple and a complex type in XML Schema

11. [/5] Explain, what is a QID in Wikidata

Be concise! Think first, write later.

12. [/25] For a given situation choose a suitable data format, create a schema and create a data sample. Explain your decisions.


```
┌─────────────────────┐                      ┌─────────────────────┐
│       Airline       │                      │      Airplane       │
├─────────────────────┤  1            0..n   ├─────────────────────┤
│ - name              │                      │ - name              │
│ - number of         │          owns        │ - capacity          │
│   employees         │                      │ - number of         │
│                     │                      │   engines           │
└─────────────────────┘                      └─────────────────────┘
```

We need to exchange the data within public administration, using web services, and we need to do it reliably. Typical queries:
- Number of engines owned by an Airline
- Number of Airplanes per employee