

upto last week:
 (Network DB Model, Rel Model + SQL,
 ODMG Model + OQL)

inside 1 Single Database
 Schema SQL: Multiple Databases
 "Data Intergration"
 in SQL

- inside each DB: FK → PK, joins
- between the DBs: common values (keys)
 Data + meta data
- querying structure

Diagram illustrating data structure and relationships:

```

    graph TD
        subgraph "database"
            T1[tables/columns] --- T1T[tables]
            T1 --- T1C[columns]
        end
        subgraph "structure"
            T2[tables/columns] --- T2T[tables]
            T2 --- T2C[columns]
        end
        subgraph "database"
            T3[tables/columns] --- T3T[tables]
            T3 --- T3C[columns]
        end
        T1 --- T2
        T2 --- T3
    
```

closed environment of known
 Databases with known Schema

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Querying Metadata Rel DB → XML

```

<database name="mardak">
  <table name="costs">
    <tuple>
      <name> Jerry (1)
      <cost> 1 (1)
    </tuple>
    ...
  </table>
  ...
</database>
    
```

XPath

```

//database[name='mardak']
/table[name='costs']
/table/name/text()
    
```

~~*~~

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Sl. 113 Sketch

select ?N ?P
 Q: where @cia: ?X isa Country;
 name ?N;
 cap ?CN.
 @qs: ?y isa County;
 h/city ?CY [name ?CN;
 pop ?P]

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all "item types" in cia



- N/ capital
- N/ city
- N/ name
- N/ pop
- ⋮

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