

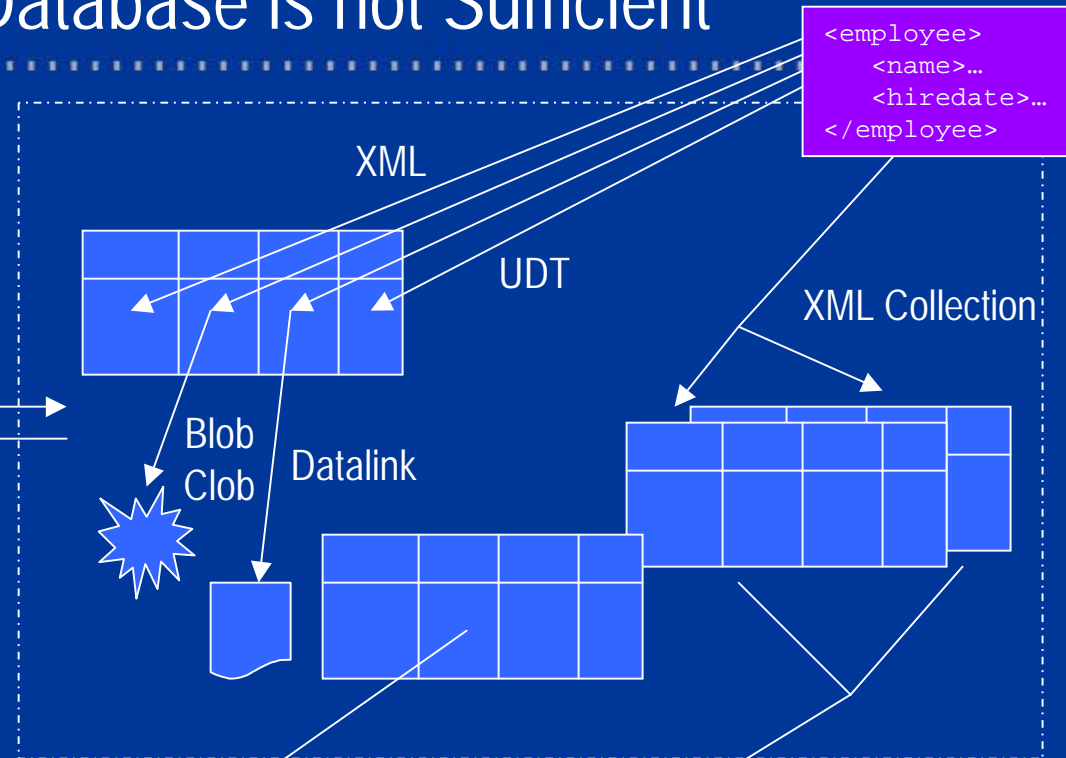
WWW2002 Panel N4: XML and Databases

Andrew Eisenberg

SQL/Relational Database is not Sufficient

```
SELECT *
FROM employees
WHERE ...
```

ODBC
JDBC
Embedded SQL
SQLJ



SQL/XML

- XML Data Type
- XML Publishing Functions
- XML Mapping of Tables

```
SELECT XMLELEMENT (...)
FROM employees
WHERE ...
```

```
<department>
  <row>
    <name>...
    <budget>...
  </row>
</department>
```

```
<employee>
  <name>...
  <hiredate>...
</employee>
```

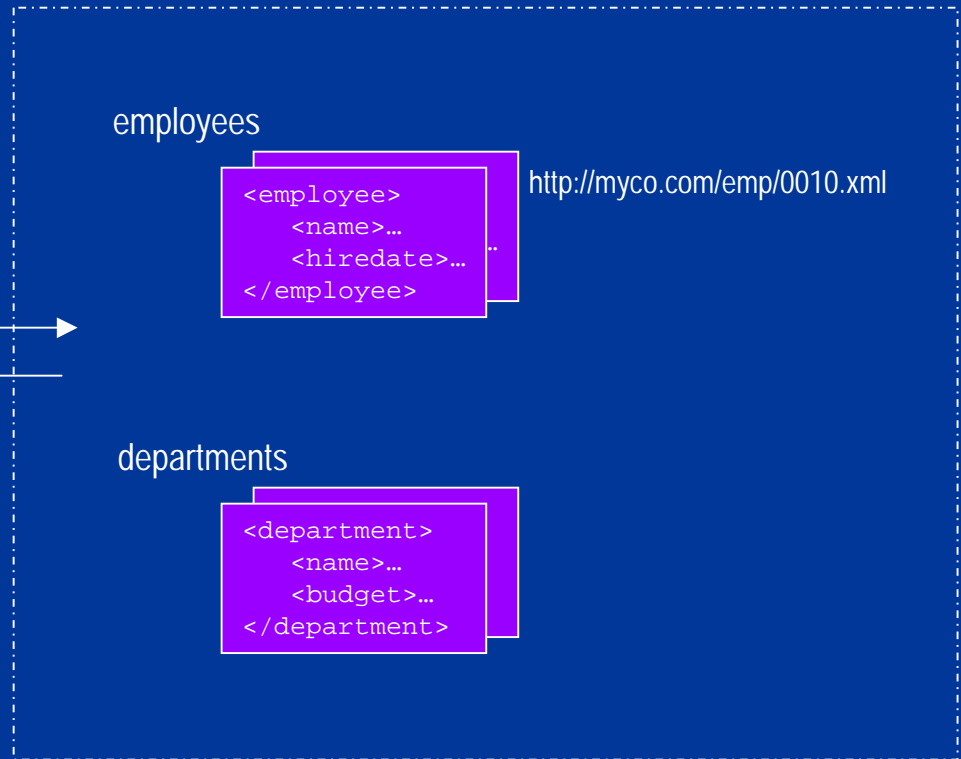
XML Database is not Sufficient

```
employees/employee[name="Rys" ]
```

```
for $e in collection("employees")  
where $e//hiredate  
      eq date("2002-05-08")  
return ...
```

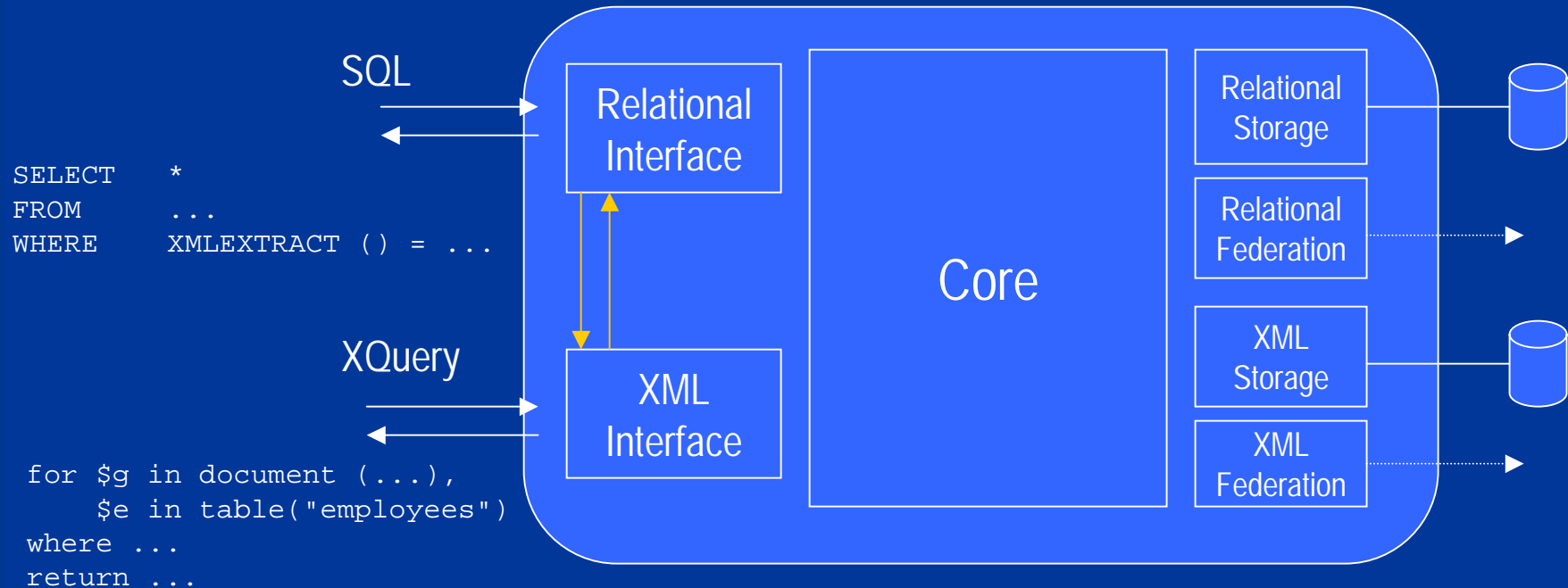


DOM
SAX
Webdav



SQL and XML Must Coexist

DBMS



scalability, availability, reliability, manageability
performance, performance, performance