

```
Example

SELECT

CASE WHEN EXISTS (SELECT *
FROM hop)
THEN 1 ELSE 0
END AS x
FROM dual;

Notes:
Oracle and DB2 FROM not optional
Oracle has no boolean datatype
```

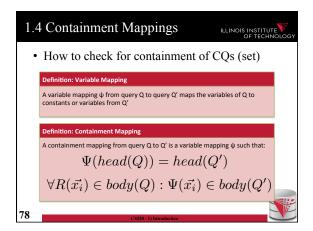
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1.4 Boolean Conjunctive Queries

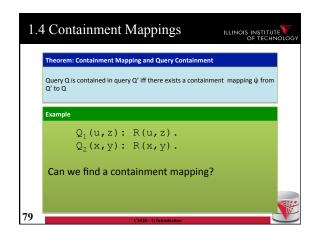
• BCQ in SQL

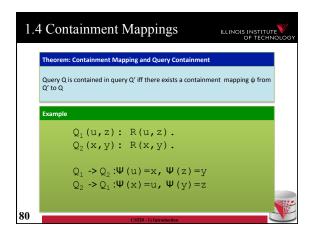
Example

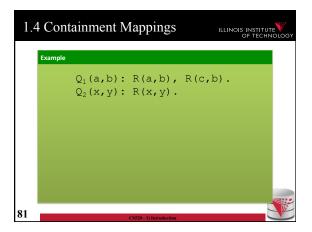
Q:- hop(x,y), hop(y,z)

SELECT EXISTS
(SELECT *
FROM hop 1, hop r
WHERE 1.B = r.A)
```



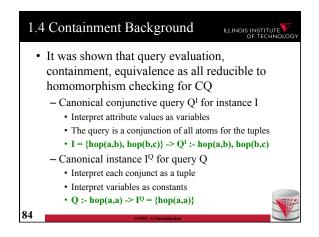


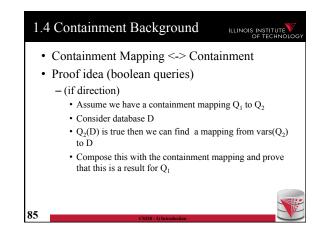


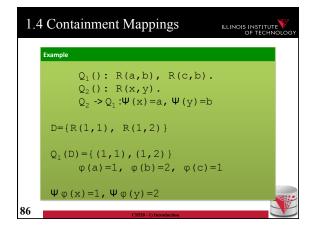


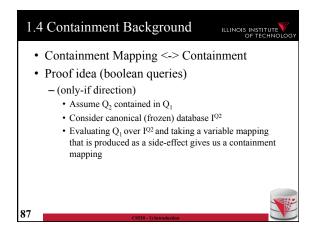
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1.4 Containment Mappings

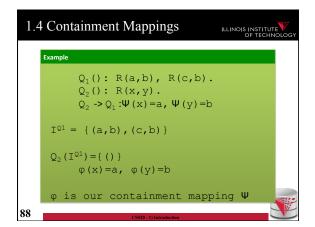
| Example | Q<sub>1</sub> (a,b): R(a,b), R(c,b). Q<sub>2</sub> (x,y): R(x,y). |
| Q<sub>1</sub> -> Q<sub>2</sub>: \Psi (a) = x, \Psi (b) = y, \Psi (c) = y Q<sub>2</sub> -> Q<sub>1</sub>: \Psi (x) = a, \Psi (y) = b
```

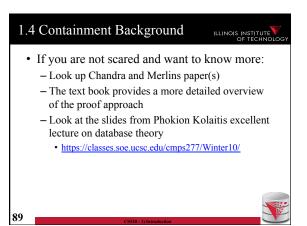


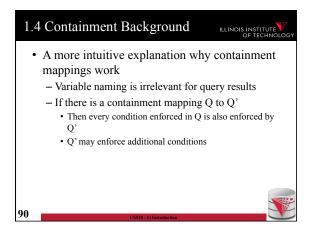


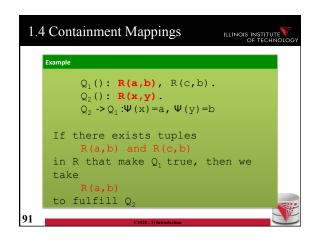


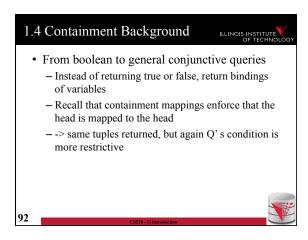


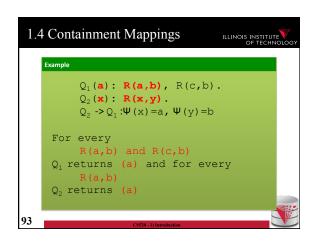












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    Problem faced by multiple integration tasks
    Given two objects, how similar are they
    E.g., given two attribute names in schema matching, given two values in data fusion/entity resolution, ...
```

