

```
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
```

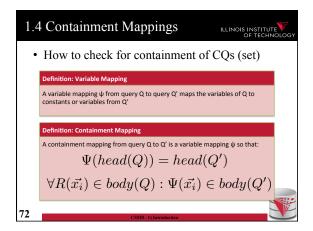
```
1.4 Boolean Conjunctive Queries

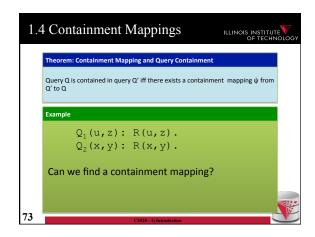
BCQ in SQL

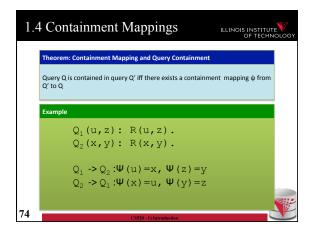
Example

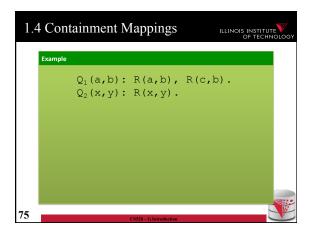
Q:- hop(x,y), hop(y,z)

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







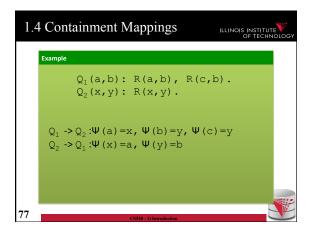


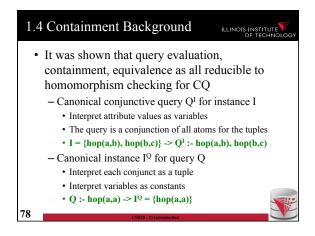
```
1.4 Containment Mappings

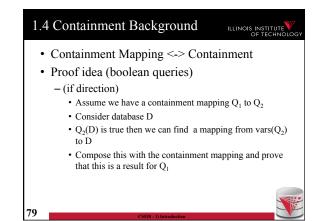
Example

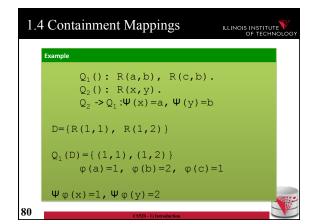
Q_1(a,b): R(a,b), R(b,c).
Q_2(x,y): R(x,y).
Do containment mappings exist?

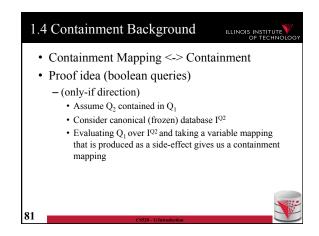
Q_1 \rightarrow Q_2: \text{none exists}
Q_2 \rightarrow Q_1: \Psi(x) = a, \Psi(y) = b
```

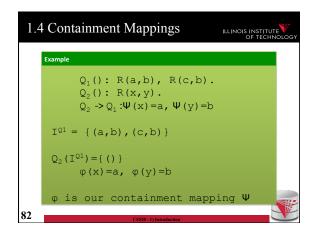


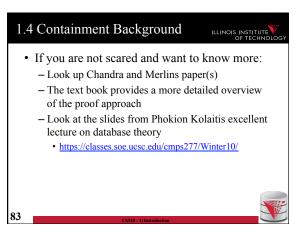


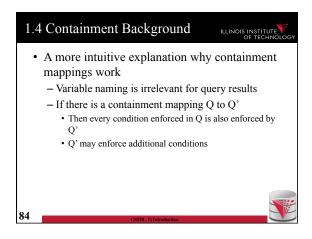


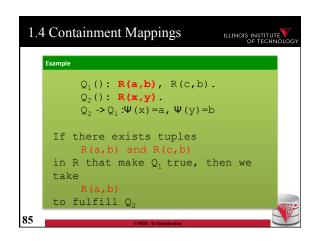


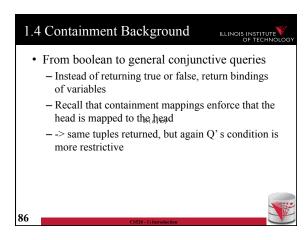


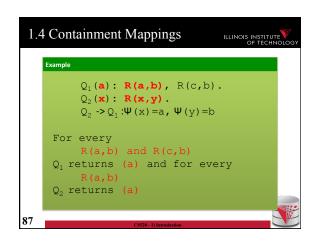












```
Problem faced by multiple integration tasks
Given two objects, how similar are they
E.g., given two attribute names in schema matching, given two values in data fusion/entity resolution, ...
```

