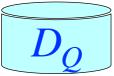


## **Bounded Query Processing**









 $ightharpoonup D_O$  is **bounded** (independent of D) the bound is known before execution

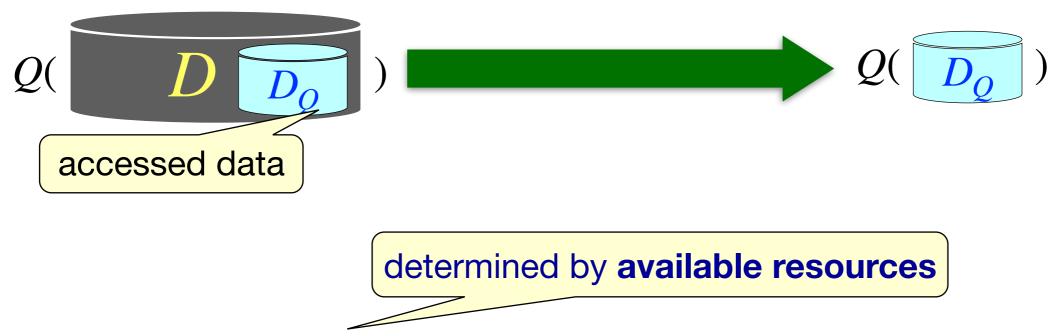




ightharpoonup Q(D) can be **restored** by computing  $Q(D_Q)$ 

# Query evaluation with bounded cost

## **Bounded Query Processing**



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- Q(D) can be **restored** by computing  $Q(D_Q)$

Query evaluation with bounded cost

### Outline: resource-bounded query evaluation

#### I. Bounded Query Processing on DBMS

- Theory: bounded evaluation
- Framework: bounded approximation
- System: BEAS

#### II. Bounded Query Processing on Key-value Stores

a data model for bounded evaluation on key-value stores