SQL queries: summary and examples

Lecture 03.04

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SELECT FROM WHERE $\pi R \sigma$

SELECT	a + b	a b	DISTINCT	CASE
FROM	R as S	R, S	R JOIN S ON cond	R,S WHERE R.a=S.b
WHERE	a = 'scalar'		cond1 OR cond2	IS (NOT) NULL

SUBQUERIES

- FROM subquery as a relation (table)
- WHERE subquery as scalar or list (bag)
- WHERE correlated subqueries

AGGREGATES, GROUPS

SELECT AGGR(column) FROM ...

SELECT a, b, AGGR(c) FROM R GROUP BY a,b

SELECT a, MIN(b)
FROM R
GROUP BY a
HAVING count(b) > 2

SETS

Query1
UNION, INTERSECT, EXCEPT (minus)
Query2

 Results of Query1 and Query2 must be unioncompatible

Result is a SET

ORDER BY, LIMIT