

CSE 311L(Database Management System)

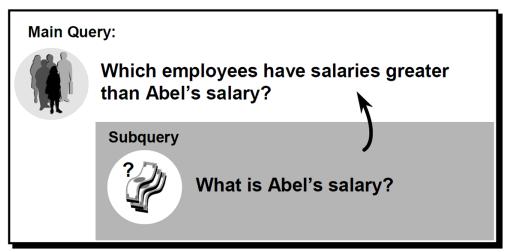
LAB-Week 07 (Part A)

Subqueries

Topics:

- Using a Subquery to Solve a Problem
- Subquery Syntax
- ► Single-Row Subqueries
- Executing Single-Row Subqueries
- ► Using Group Functions in a Subquery

Who has a salary greater than Abel's?



Using a Subquery

LAST_NAME		
King Kochhar		
Kochhar		
De Haan		
Hartstein		
Higgins		

Single-Row Subqueries

- Return only one row
- Use single-row comparison operators

Operator	Meaning
=	Equal to
>	Greater than
>=	Greater than or equal to
<	Less than
<=	Less than or equal to
<>	Not equal to

Executing Single-Row Subqueries

LAST_NAME	JOB_ID	SALARY
Rajs	ST_CLERK	3500
Davies	ST_CLERK	3100

Using Group Functions in a Subquery

LAST_NAME	JOB_ID	SALARY
Vargas	ST_CLERK	2500



CSE 311L(Database Management System)

LAB-Week 07 (Part B)

Subqueries

Topics:

- Single-row operator with multiple-row subquery
- ► Multiple-Row Subqueries
- Using the ANY Operator
- Using the ALL Operator

What is Wrong with this Statement?

Multiple-Row Subqueries

- ▶ Return more than one row
- ▶ Use multiple-row comparison operators

Operator	Meaning
IN	Equal to any member in the list
ANY	Compare value to each value returned by the subquery
ALL	Compare value to every value returned by the subquery

Using the ANY Operator



EMPLOYEE_ID	LAST_NAME	JOB_ID	SALARY
124	Mourgos	ST_MAN	5800
141	Rajs	ST_CLERK	3500
142	Davies	ST_CLERK	3100
143	Matos	ST_CLERK	2600
144	Vargas	ST_CLERK	2500

Using the ALL Operator

EMPLOYEE_ID	LAST_NAME	JOB_ID	SALARY
141	Rajs	ST_CLERK	3500
142	Davies	ST_CLERK	3100
143	Matos	ST_CLERK	2600
144	Vargas	ST_CLERK	2500