



Subquery Example 1

Find the most expensive products

select * from products where price =
(select max(price) from products);

Subquery Example 2

- List the ID's of the products sold on 2007/6/1
- select d.product_id from order_details d, (select * from orders where date_ordered = '2007-06-01') as o where d.order_id = o.id;

More Subquery Examples

- List the ID's of the products sold on 2007/6/1 (Using IN)
- List the descriptions of the products sold on 2007/6/1
- Find the CPU products that are cheaper than Intel Pentium D

Set Operations

Union

■ {1,2,3} ∪ {4,5,6} = {1,2,3,4,5,6}

■ {1,2,3} ∩ {2,3,4} = {2,3}

Difference

■ {1,2,3} - {2,3,4} = {1}





- $\ensuremath{\textcircled{\sc combine}}$ result tables of select statements
- The result tables must have the same number of columns
- The corresponding columns must have the same (or at least "compatible") type
- Duplicates in union results
 - UNION automatically remove duplicates
 - UNION ALL keep duplicates







Summary

Syntax

- Subquery, set operationsANY, ALL, EXISTS
- A different way of thinking (vs. Joins)