 



Homework

* 1. : Using ROLLUP and CUBE Operations and GROUPING SETS Practice Activities

# Vocabulary

ROLL UP = Used to create subtotals that roll up from the most detailed level to a grand total, following a grouping list specified in the clause

CUBE An extension to the GROUP BY clause like ROLLUP that produces cross-tabulation reports

Functiile GROUPING = Used to specify multiple groupings of data

# Try It / Solve It

1. Within the Employees table, each manager\_id is the manager of one or more employees who each have a job\_id and earn a salary. For each manager, what is the total salary earned by all of the employees within each job\_id? Write a query to display the Manager\_id, job\_id, and total salary. Include in the result the subtotal salary for each manager and a grand total of all salaries.

SELECT manager\_id, job\_id, SUM(salary)

FROM employees

GROUP BY ROLLUP(manager\_id, job\_id)

1. Amend the previous query to also include a subtotal salary for each job\_id regardless of the manager\_id.

SELECT job\_id, SUM(salary)

FROM employees

GROUP BY ROLLUP( job\_id)

1. Using GROUPING SETS, write a query to show the following groupings:
   * department\_id, manager\_id, job\_id
   * manager\_id, job\_id
   * department\_id, manager\_id

SELECT department\_id, job\_id, SUM(salary)

FROM employees

GROUP BY GROUPING SETS

((job\_id, manager\_id), (department\_id, job\_id),(department\_id, manager\_id));