Inline Views

- Inline views are also referred to as subqueries in the FROM clause.
- You insert a subquery in the FROM clause just as if the subquery was a table name.
- Inline views are commonly used to simplify complex queries by removing join operations and condensing several queries into one.
- As shown in the example below, the FROM clause contains a SELECT statement that retrieves data much like any SELECT statement.
- The data returned by the subquery is given an alias (d), which is then used in conjunction with the main query to return selected columns from both query sources.

SELECT e.last_name, e.salary, e.department_id, d.maxsal FROM employees e,

(SELECT department_id, max(salary) maxsal FROM employees

GROUP BY department_id) d

WHERE e.department_id= d.department_id AND e.salary= d.maxsal;

TOP-N-ANALYSIS

- Top-n-analysis is a SQL operation used to rank results.
- The use of top-n-analysis is useful when you want to retrieve the top 5 records, or top-n records, of a result set returned by a query.

SELECT ROWNUM AS "Longest employed", last_name, hire_date FROM employees WHERE ROWNUM <=5 ORDER BY hire_date

Longest employed	LAST_NAME	HIRE_DATE
1	King	17-Jun-1987
4	Whalen	17-Sep-1987
2	Kochhar	21-Sep-1989
3	De Haan	13-Jan-1993
5	Higgins	07-Jun-1994

TOP-N-ANALYSIS

- The top-n-analysis query uses an inline view (a subquery) to return a result set.
- You can use ROWNUM in your query to assign a row number to the result set.
- The main guery then uses ROWNUM to order the data and return the top five.

SELECT ROWNUM AS "Longest employed", last_name, hire_date FROM (SELECT last_name, hire_date FROM employees ORDER BY hire_date) WHERE ROWNUM <=5;

Longest employed	LAST_NAME	HIRE_DATE
1	King	17-Jun-1987
2	Whalen	17-Sep-1987
3	Kochhar	21-Sep-1989
4	Hunold	03-Jan-1990
5	Ernst	21-May-1991

• In the example above, the inline view first selects the list of last_namesand hire_datesof the employees:

(SELECT last_name, hire_dateFROM employees...

• Then the inline view orders the years from oldest to newest.

...ORDER BY hire date)