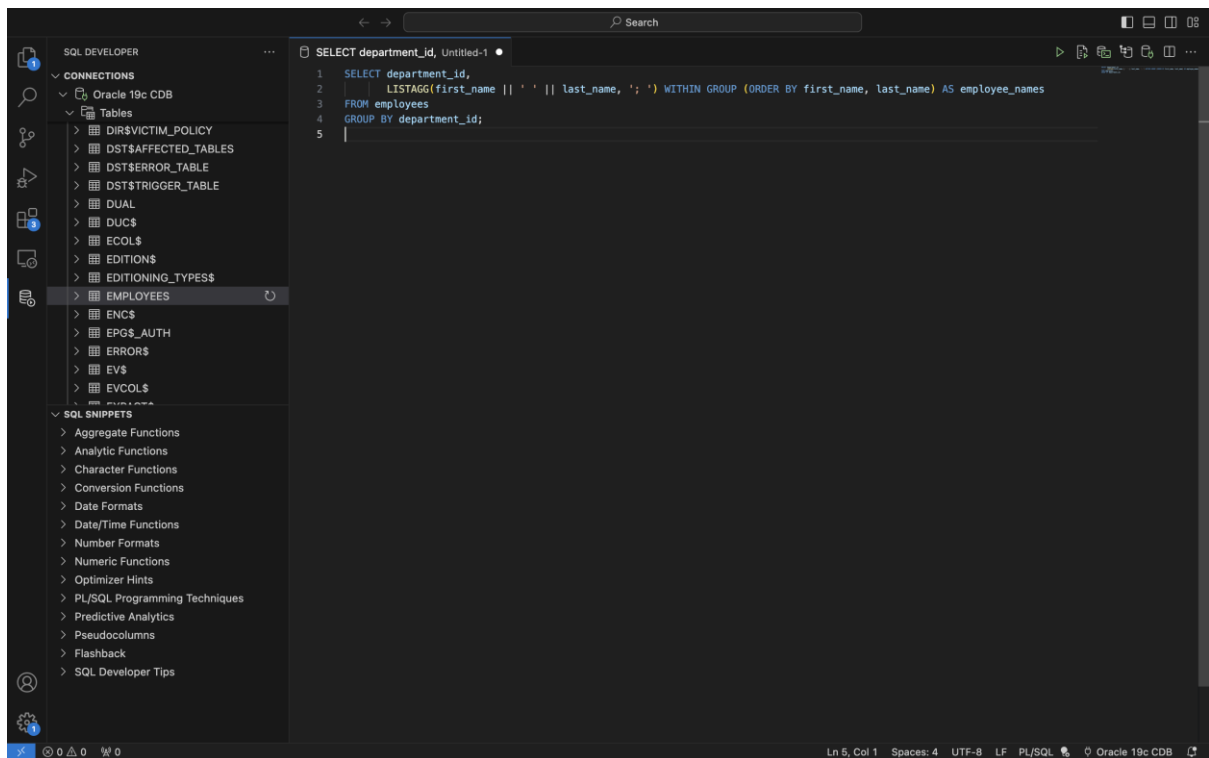


## SQL3-EX01:

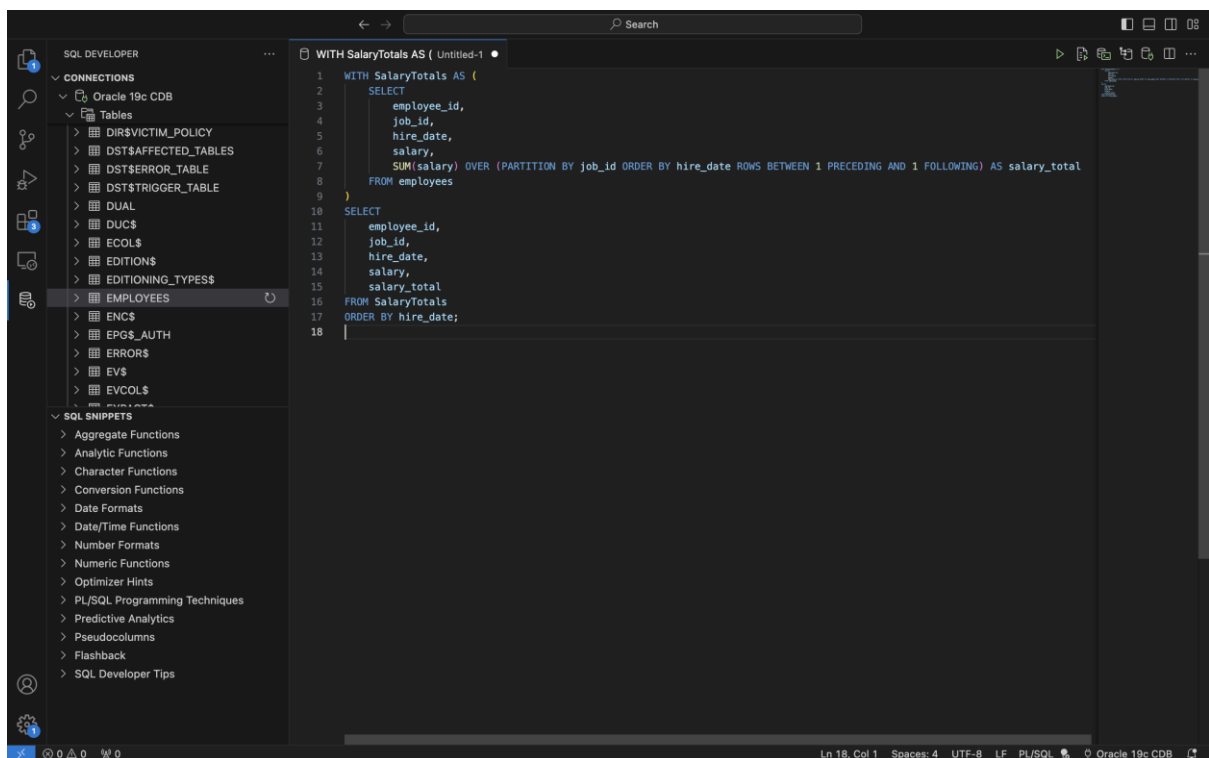


The screenshot shows the SQL Developer interface. On the left, the 'CONNECTIONS' pane is open, showing 'Oracle 19c CDB' and a list of tables. The 'EMPLOYEES' table is selected. The main editor shows a query titled 'SELECT department\_id, Untitled-1'.

```
1 SELECT department_id,  
2 LISTAGG(first_name || ' ' || last_name, ',') WITHIN GROUP (ORDER BY first_name, last_name) AS employee_names  
3 FROM employees  
4 GROUP BY department_id;  
5
```

The status bar at the bottom indicates 'Ln 5, Col 1', 'Spaces: 4', 'UTF-8', 'LF', 'PL/SQL', and 'Oracle 19c CDB'.

## SQL3-EX02:

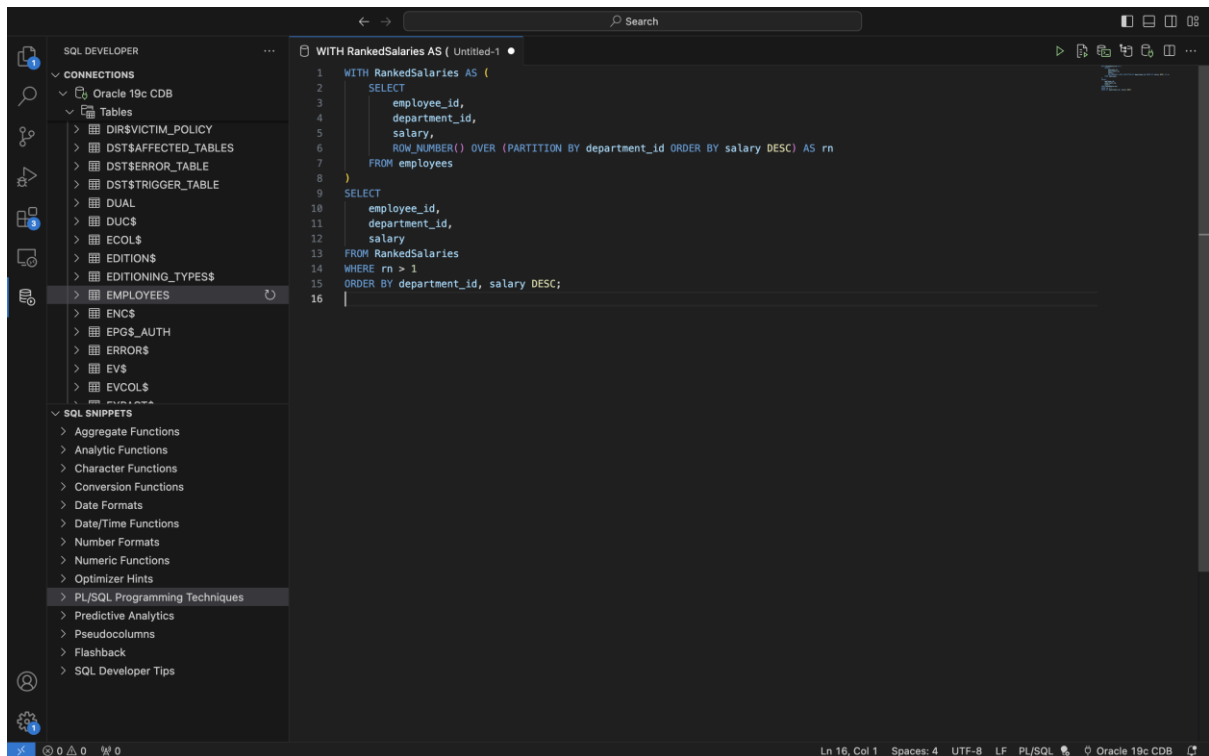


The screenshot shows the SQL Developer interface. On the left, the 'CONNECTIONS' pane is open, showing 'Oracle 19c CDB' and a list of tables. The 'EMPLOYEES' table is selected. The main editor shows a query titled 'WITH SalaryTotals AS ( Untitled-1'.

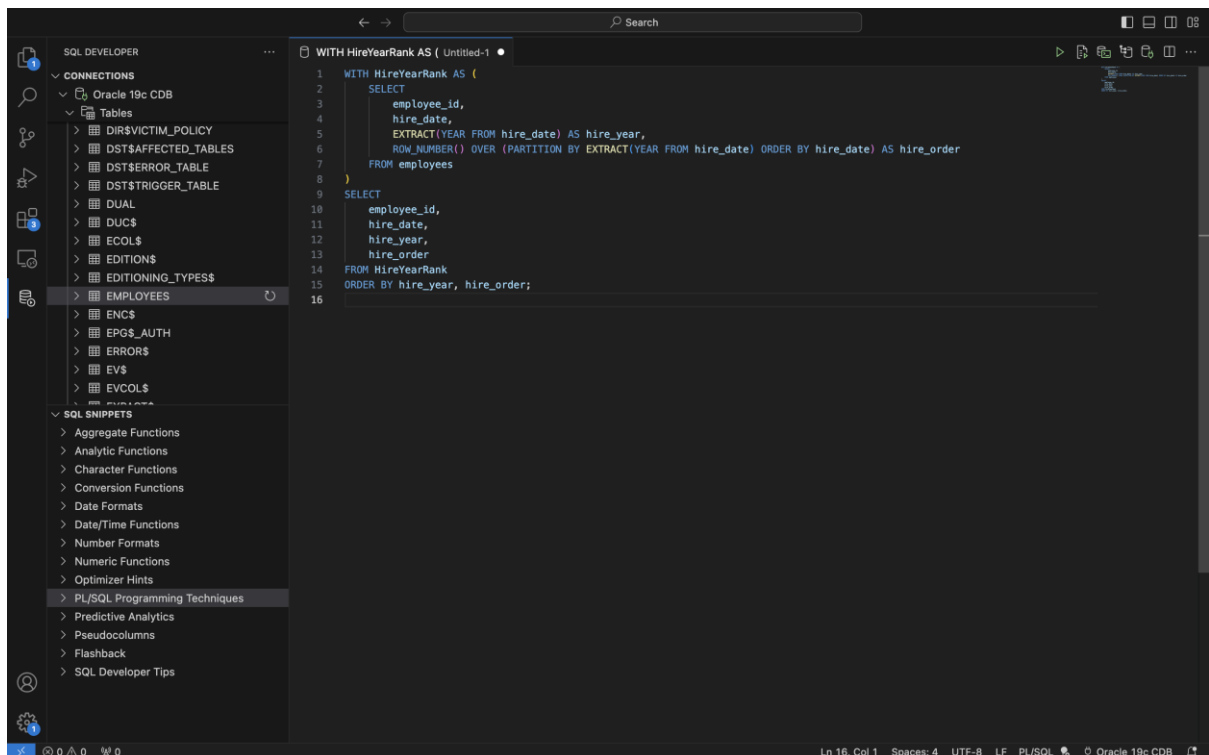
```
1 WITH SalaryTotals AS (  
2 SELECT  
3     employee_id,  
4     job_id,  
5     hire_date,  
6     salary,  
7     SUM(salary) OVER (PARTITION BY job_id ORDER BY hire_date ROWS BETWEEN 1 PRECEDING AND 1 FOLLOWING) AS salary_total  
8 FROM employees  
9 )  
10 SELECT  
11     employee_id,  
12     job_id,  
13     hire_date,  
14     salary,  
15     salary_total  
16 FROM SalaryTotals  
17 ORDER BY hire_date;  
18
```

The status bar at the bottom indicates 'Ln 18, Col 1', 'Spaces: 4', 'UTF-8', 'LF', 'PL/SQL', and 'Oracle 19c CDB'.

## SQL3-EX03:



## SQL3-EX04:



## SQL3-EX05:

SQL DEVELOPER

CONNECTIONS

- Oracle 19c CDB
  - Tables
    - DIR\$VICTIM\_POLICY
    - DST\$AFFECTED\_TABLES
    - DST\$ERROR\_TABLE
    - DST\$TRIGGER\_TABLE
    - DUAL
    - DUC\$
    - ECOL\$
    - EDITION\$
    - EDITIONING\_TYPES\$
    - EMPLOYEES
    - ENC\$
    - EPG\$\_AUTH
    - ERROR\$
    - EV\$
    - EVCOL\$

SQL SNIPPETS

- Aggregate Functions
- Analytic Functions
- Character Functions
- Conversion Functions
- Date Formats
- Date/Time Functions
- Number Formats
- Numeric Functions
- Optimizer Hints
- PL/SQL Programming Techniques
- Predictive Analytics
- Pseudocolumns
- Flashback
- SQL Developer Tips

SELECT Untitled-1

```
1 SELECT
2   employee_id,
3   first_name,
4   last_name,
5   salary,
6   LAG(salary) OVER (ORDER BY hire_date) AS previous_salary,
7   LEAD(salary) OVER (ORDER BY hire_date) AS next_salary
8 FROM employees
9 ORDER BY hire_date;
10
```

Ln 10, Col 1 Spaces: 4 UTF-8 LF PL/SQL Oracle 19c CDB