Oracle new Join Syntax Additional Examples

CROSS JOIN

- SELECT first_name, last_name, department_name FROM employees, departments;

- SELECT first_name, last_name, department_name FROM employees **CROSS JOIN** departments;

NATURAL JOINS

- ```
  SELECT
  d.department_name,
  l.city FROM
  departments d,
  locations l WHERE
  d.location_id =
  l.location_id AND
  d.country = l.country;
  ```

- ```
  SELECT
  department_name, city
  FROM departments
  NATURAL JOIN
  locations;
  ```

USING

- SELECT d.department_name, l.city FROM departments d, locations l WHERE d.location_id = l.location_id

- SELECT d.department_name, l.city FROM departments d **JOIN** locations l **USING** (location_id);

COLUMN NAMES DO NOT MATCH

- ```
  SELECT
  d.department_name,
  l.city FROM
  departments d,
  locations l WHERE
  d.location_id = l.id;
  ```

- ```
  SELECT
  d.department_name,
  l.city FROM
  departments d JOIN
  locations l ON
  (d.location_id =
  l.id);
  ```

> 1 COLUMN

- SELECT employee_id, city, department_name FROM locations l, departments d, employees e WHERE d.location_id = l.location_id AND d.department_id = e.department_id;

- SELECT employee_id, city, department_name FROM locations l **JOIN** departments d **ON** (d.location_id = l.location_id) **JOIN** employees e **ON** (d.department_id = e.department_id);

LEFT OUTER JOIN

- SELECT e.last_name, d.department_name FROM employees e, departments d WHERE e.department_id = d.department_id(+);

- SELECT e.last_name, d.department_name FROM employees e **LEFT OUTER JOIN** departments d **ON** (e.department_id = d.department_id);

RIGHT OUTER JOINS

- SELECT e.last_name, d.department_name FROM employees e, departments d WHERE e.department_id(+) = d.department_id;

- SELECT e.last_name, d.department_name FROM employees e **RIGHT OUTER JOIN** departments d **ON** (e.department_id = d.department_id);

FULL OUTER JOIN

- SELECT e.last_name, d.department_name FROM employees e **FULL OUTER JOIN** departments d **ON** (e.department_id = d.department_id);

- UNION WITH LEFT AND RIGHT OUTER JOIN

EXPLAINING YOUR PLANS

```
delete from plan_table;
explain plan for <query>;
select * from table(dbms_xplan.display);
```