**Section 5.3**

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1. SELECT e.last\_name, d.department\_id, d.department\_name

FROM employees e, departments d

WHERE e.department\_id(+) = d.department\_id

UNION

SELECT e.last\_name, d.department\_id, d.department\_name

FROM employees e, departments d

WHERE e.department\_id = d.department\_id(+)

1. SELECT employee\_id, hire\_date, job\_id, department\_id

FROM employees

UNION

SELECT employee\_id, start\_date, job\_id, department\_id

FROM job\_history

1. SELECT employee\_id, hire\_date, job\_id, department\_id

FROM employees

UNION ALL

SELECT employee\_id, start\_date, job\_id, department\_id

FROM job\_history

ORDER BY employee\_id

* 1. Only 1 extra row was output. It was employee 176, a sales rep

1. SELECT employee\_id

FROM employees

MINUS

SELECT employee\_id

FROM job\_history

1. SELECT employee\_id

FROM employees

INTERSECT

SELECT employee\_id

FROM job\_history

* 1. 114 and 122 because they are not in the employees and job\_history tables

1. SELECT employee\_id, job\_id, NVL(salary, 0)

FROM employees

UNION

SELECT employee\_id, job\_id, to\_number(0)

FROM job\_history