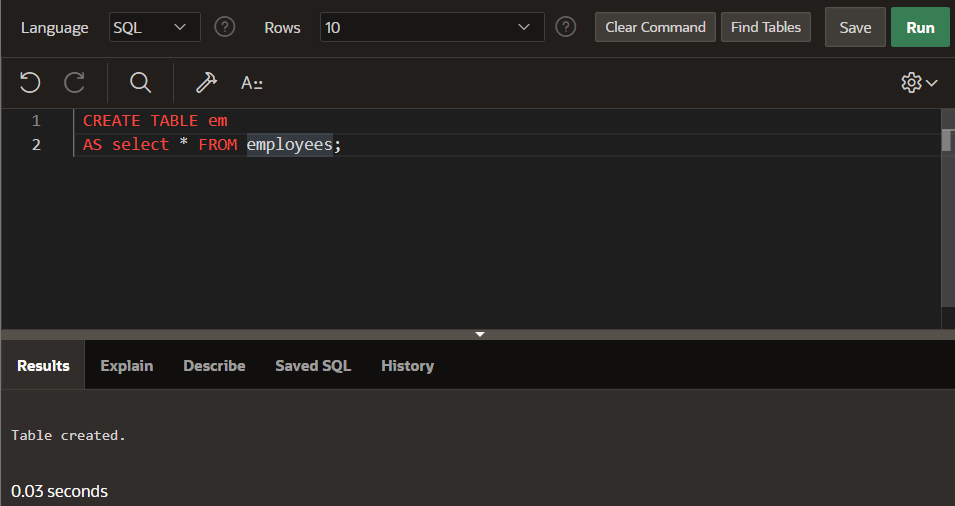
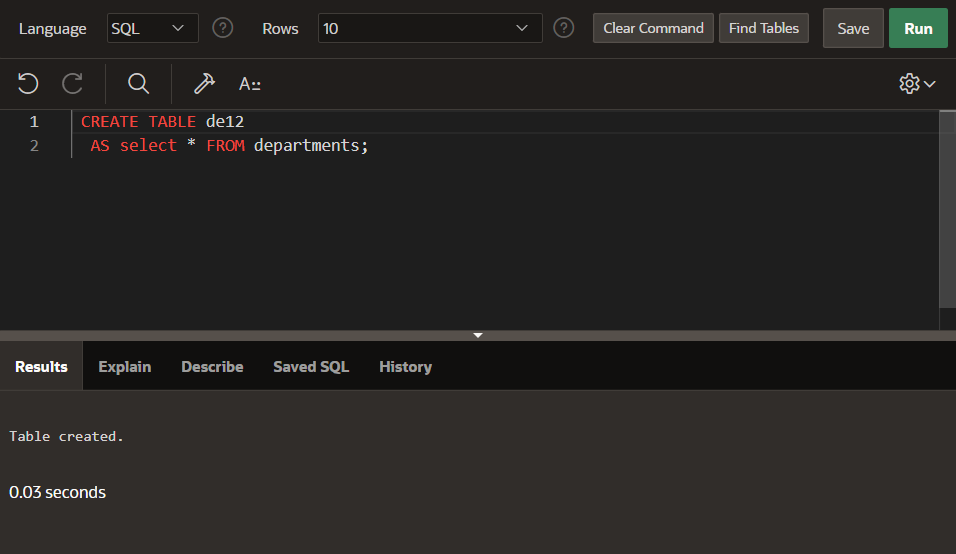
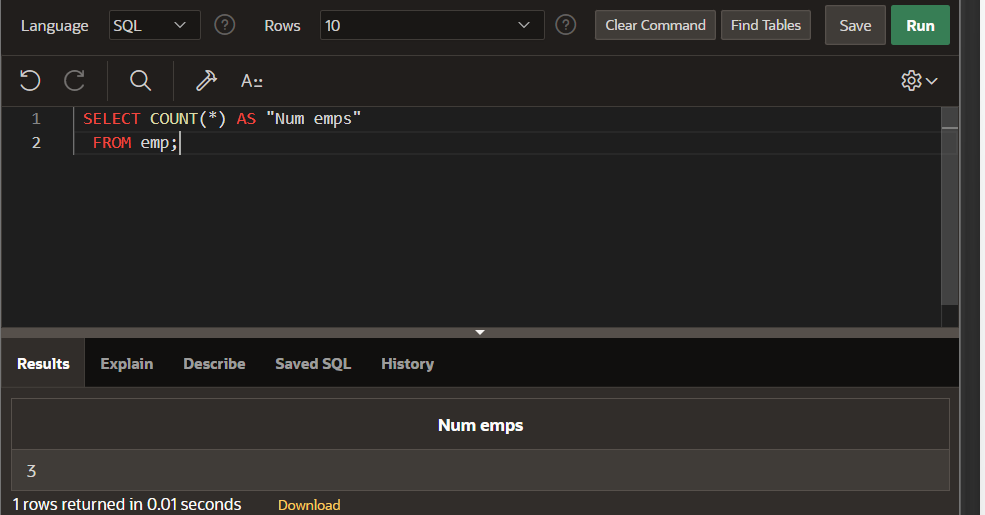
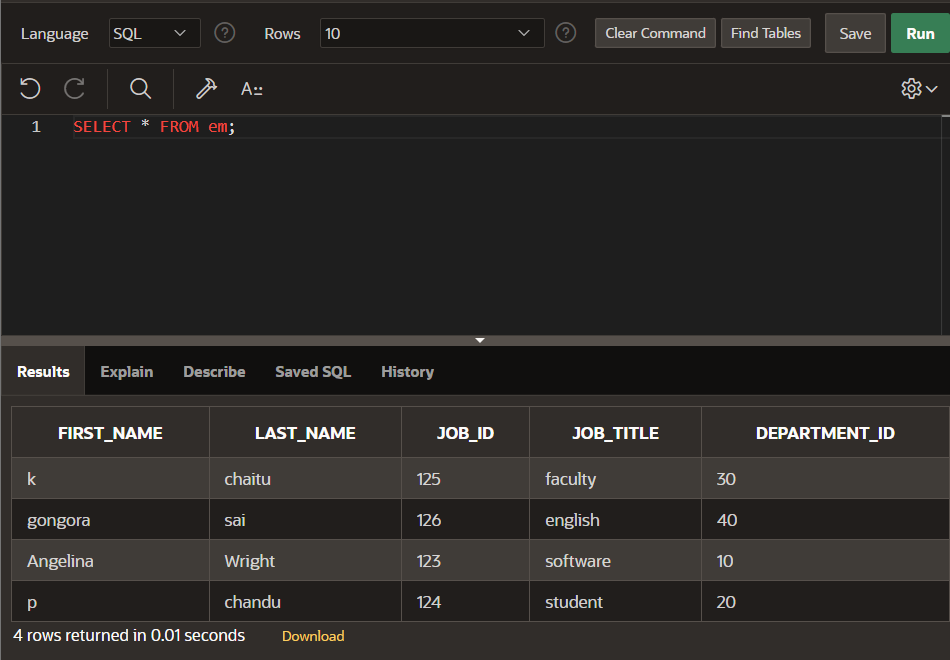
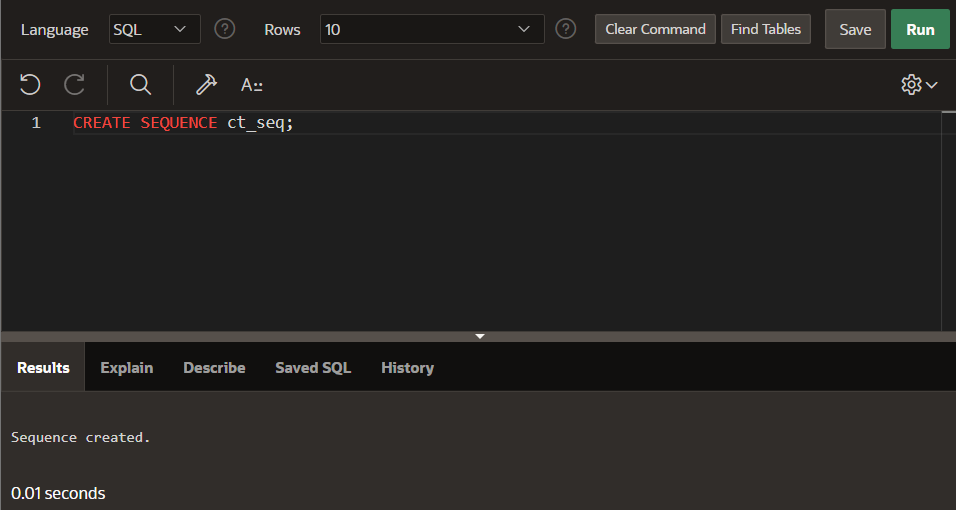
**SECTION 20**

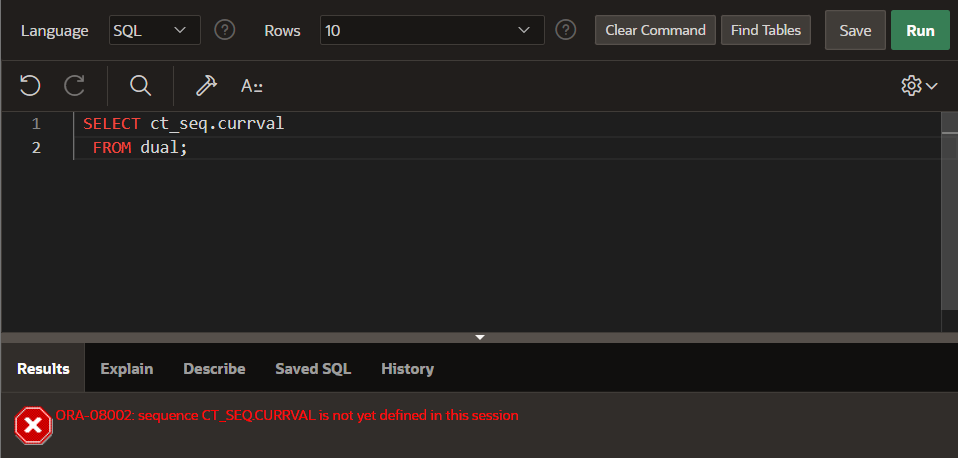
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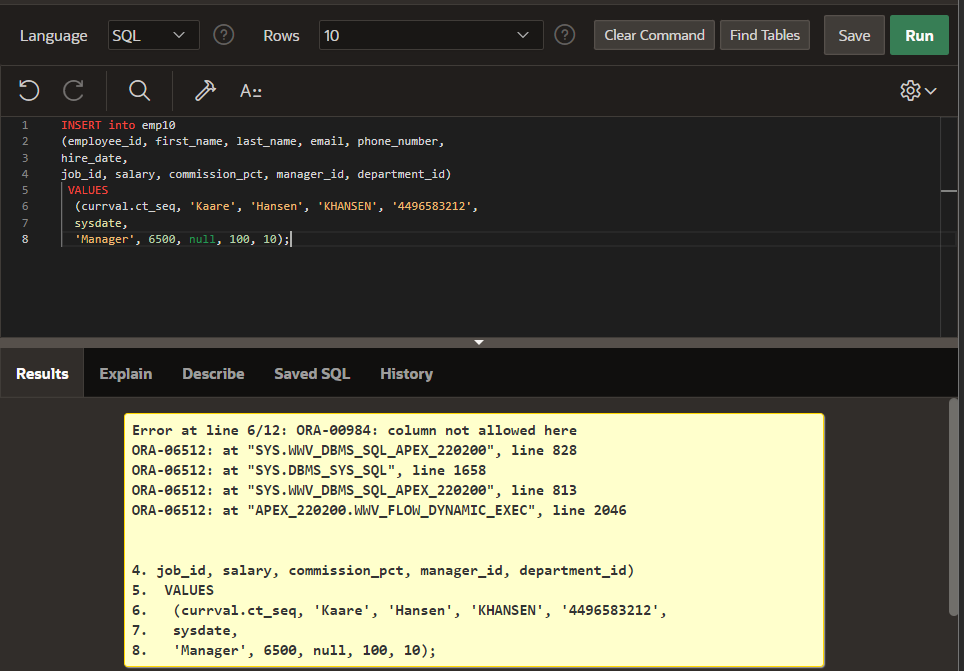
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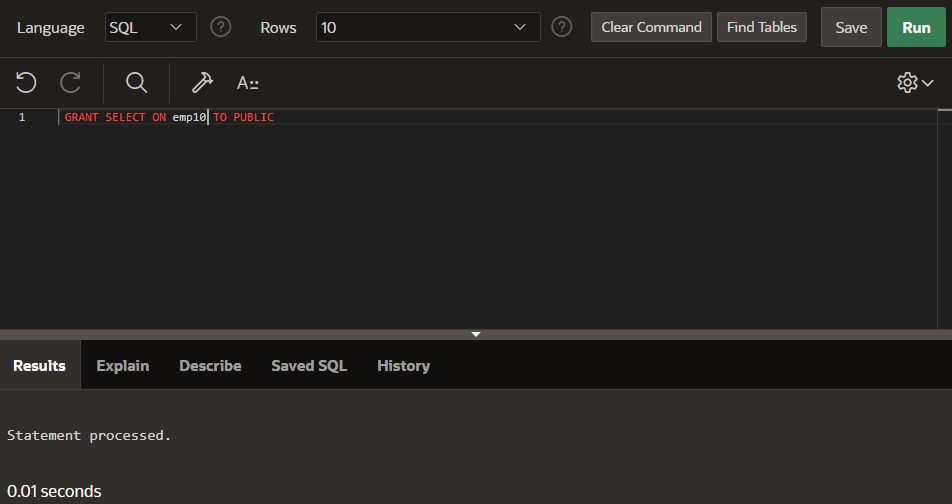
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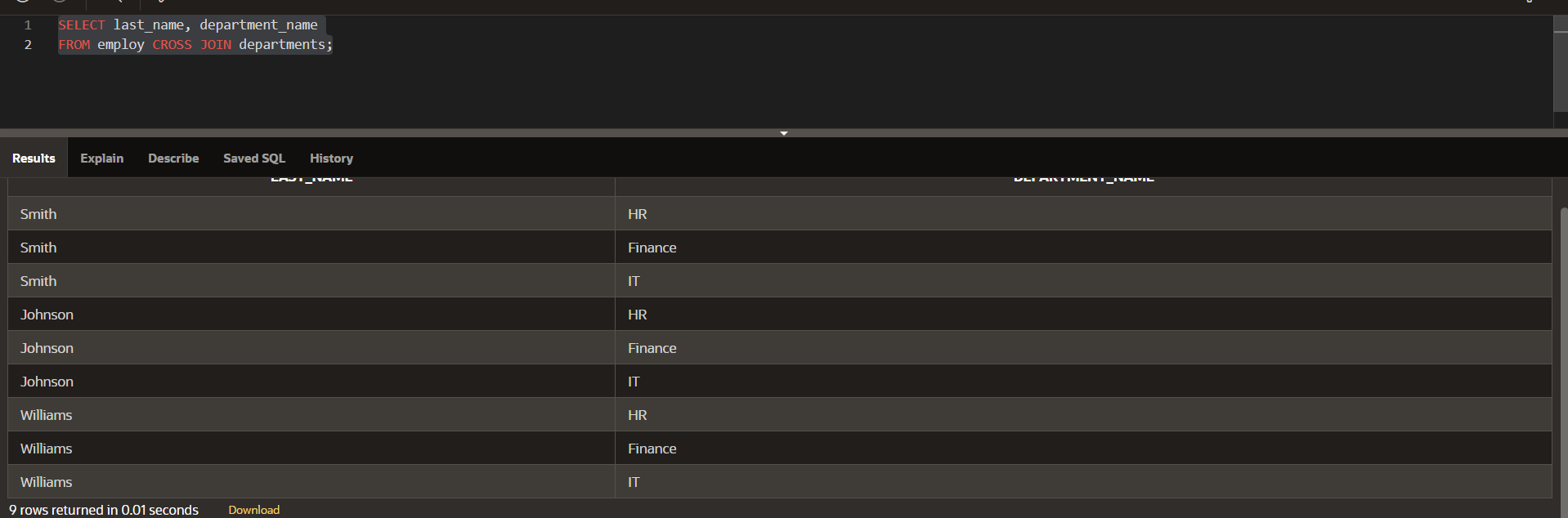
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Data programming 19\_3

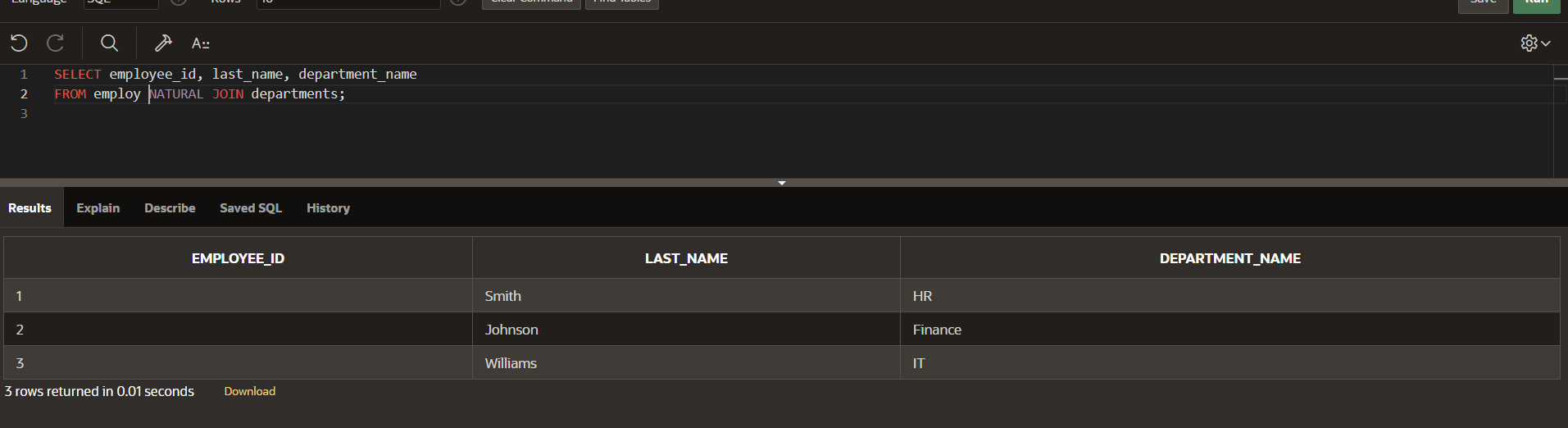
SELECT last\_name, department\_name

FROM employees CROSS JOIN departments;



SELECT employee\_id, last\_name, department\_name

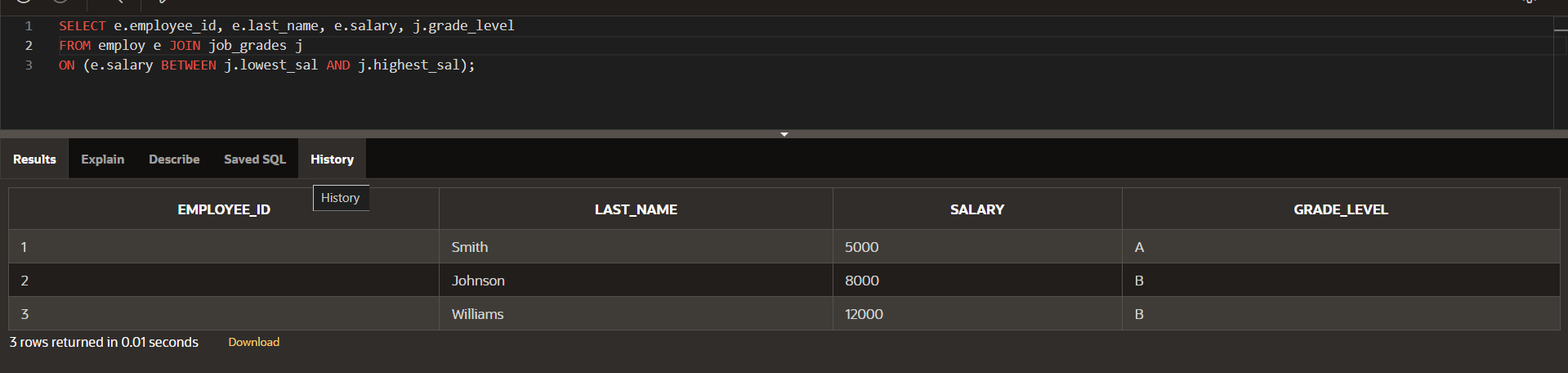
FROM employees NATURAL JOIN departments;



SELECT e.employee\_id, e.last\_name, e.salary, j.grade\_level

FROM employ e JOIN job\_grades j

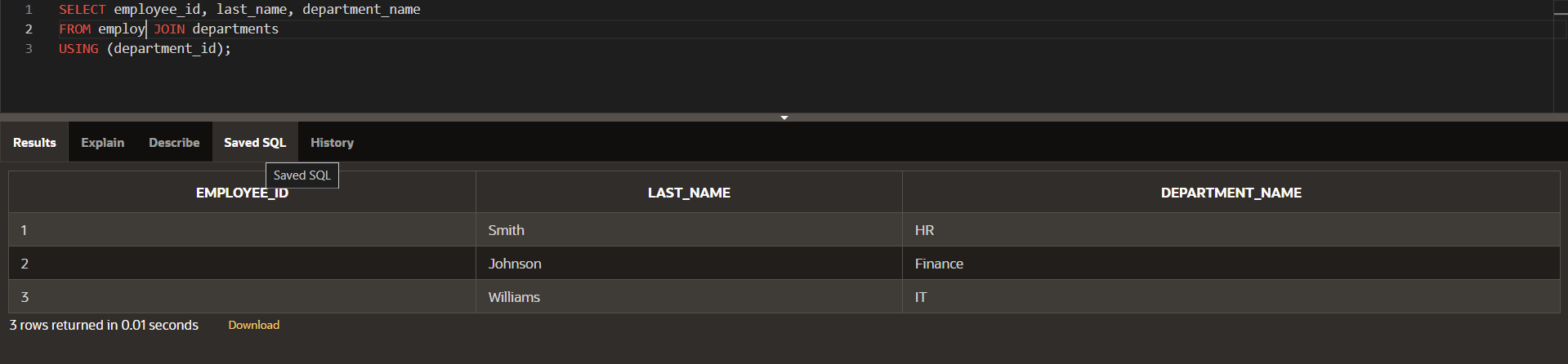
ON (e.salary BETWEEN j.lowest\_sal AND j.highest\_sal);



**SELECT employee\_id, last\_name, department\_name**

**FROM employ JOIN departments**

**USING (department\_id);**

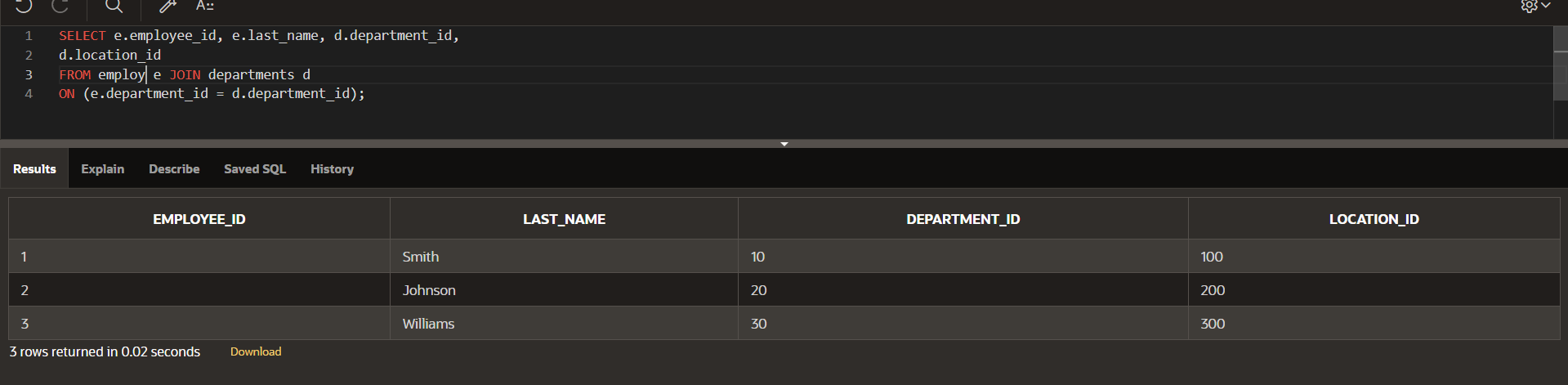


SELECT e.employee\_id, e.last\_name, d.department\_id,

d.location\_id

FROM employees e JOIN departments d

ON (e.department\_id = d.department\_id);

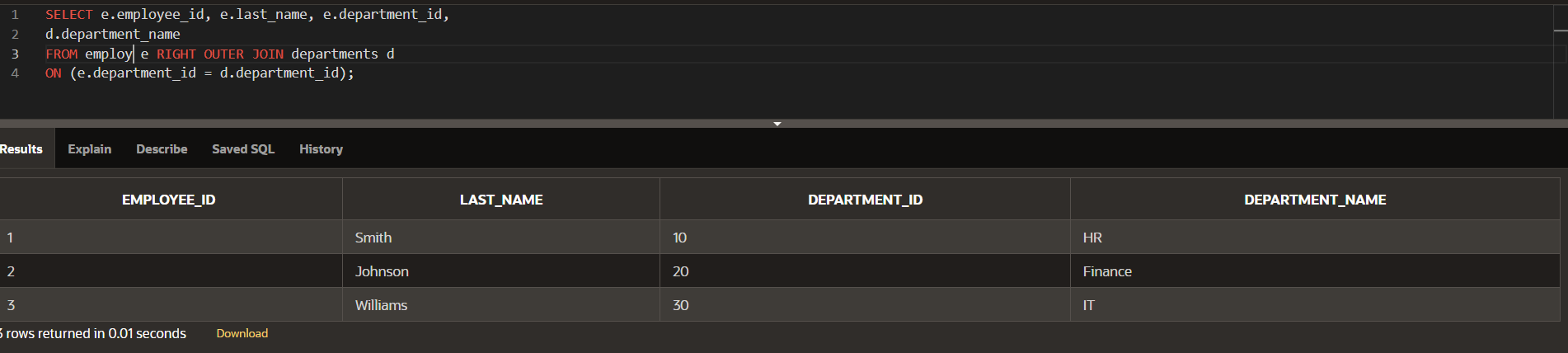


SELECT e.employee\_id, e.last\_name, e.department\_id,

d.department\_name

FROM employ e RIGHT OUTER JOIN departments d

ON (e.department\_id = d.department\_id);

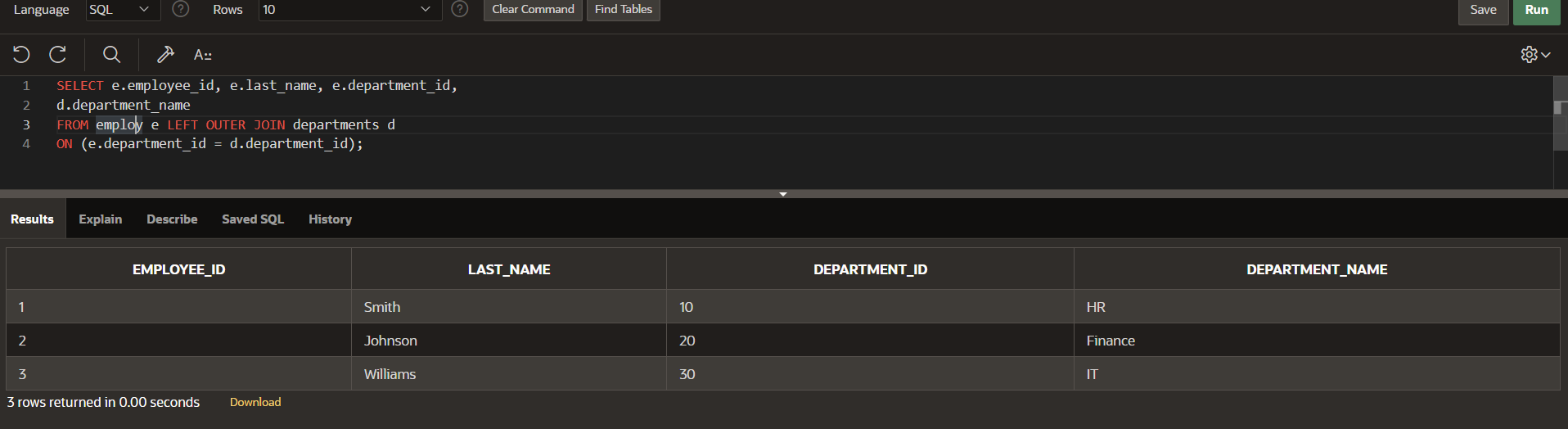


SELECT e.employee\_id, e.last\_name, e.department\_id,

d.department\_name

FROM employ e LEFT OUTER JOIN departments d

ON (e.department\_id = d.department\_id);

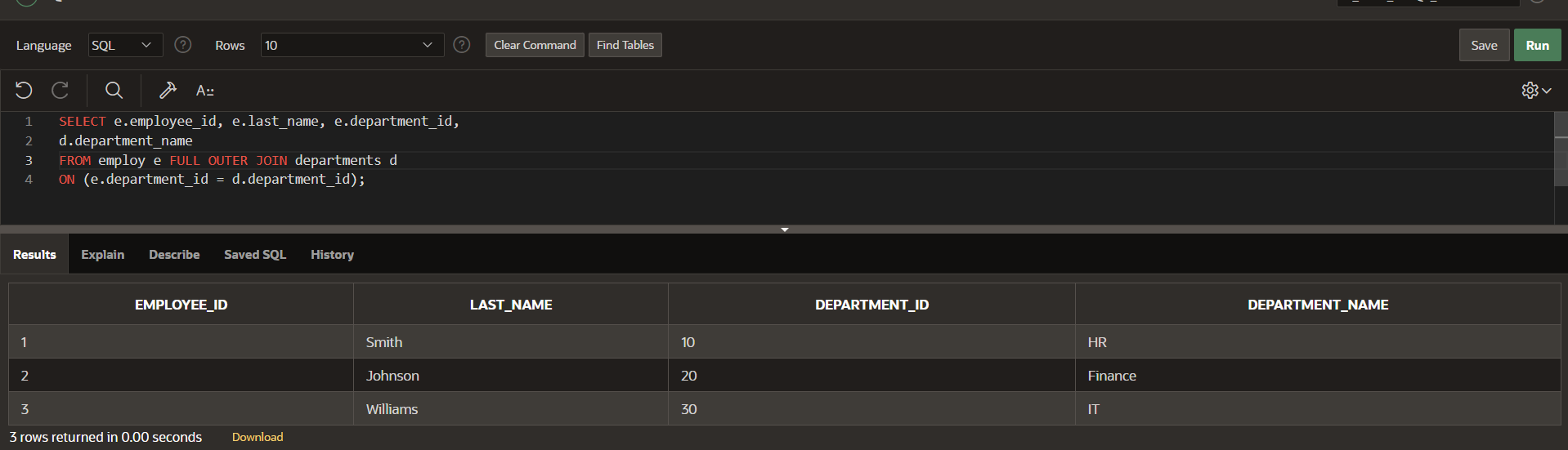


SELECT e.employee\_id, e.last\_name, e.department\_id,

d.department\_name

FROM employ e FULL OUTER JOIN departments d

ON (e.department\_id = d.department\_id);



**SECTION 18**

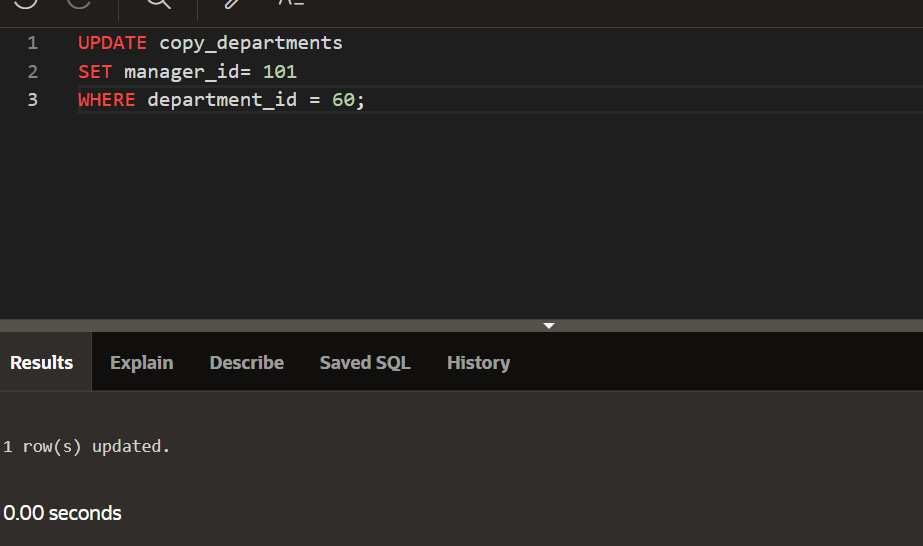
**DP 18.1:**

A screen shot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated



A computer screen shot of a black screen

Description automatically generated

A screenshot of a computer

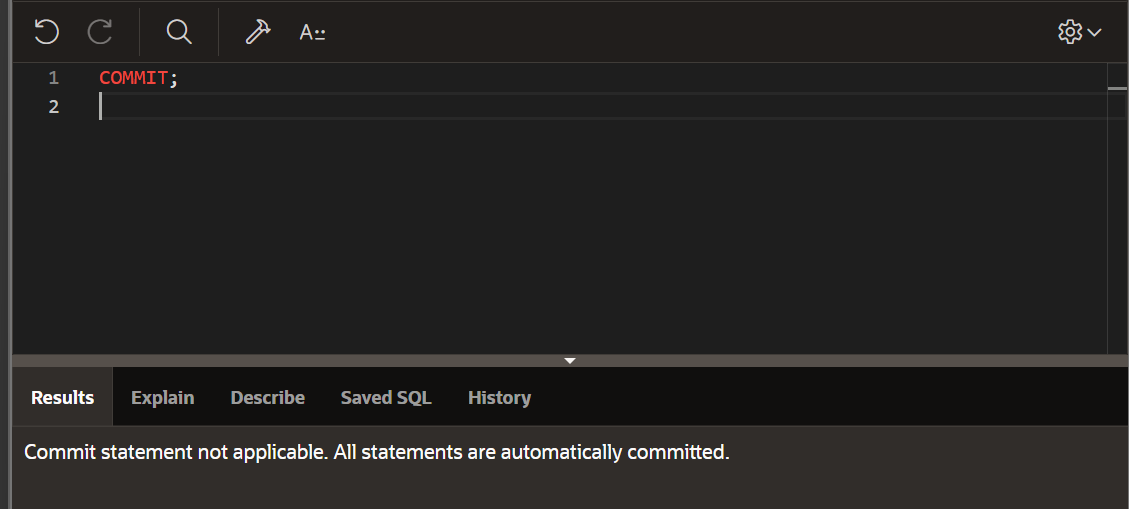
Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

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