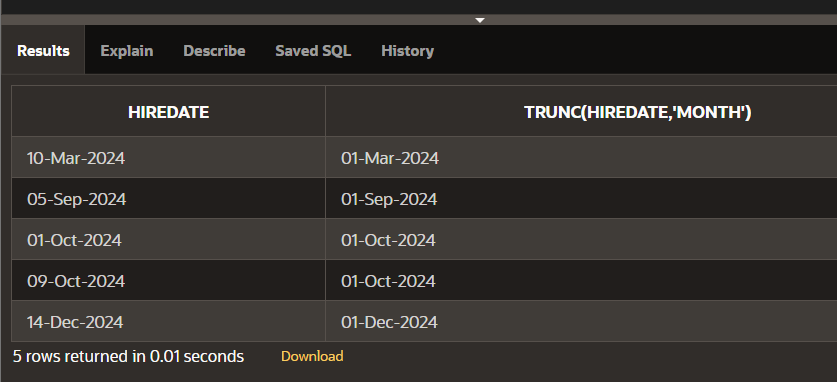
**Section 4**

**TRUNC**

**select hiredate,**

**trunc(hiredate,'month')**

**from singer;**

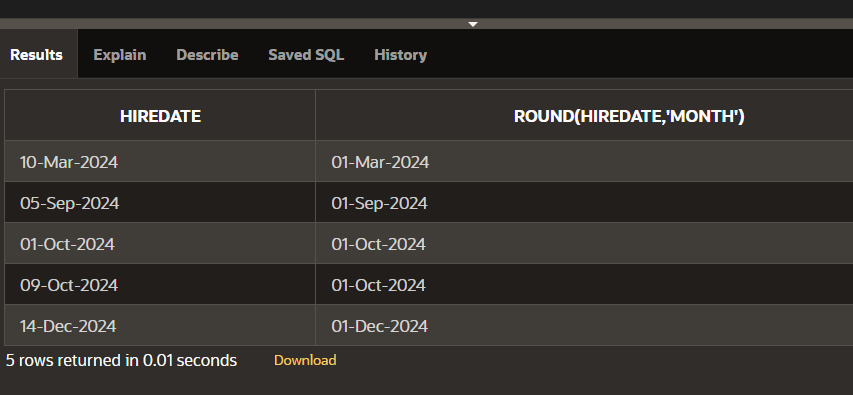
****

**ROUND TO HIREDATE**

**select hiredate,**

**round(hiredate,'month')**

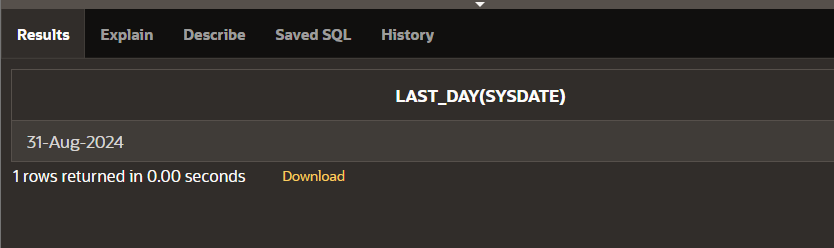
**from singer;**

****

**LAST DAY**

**select last\_day(sysdate)**

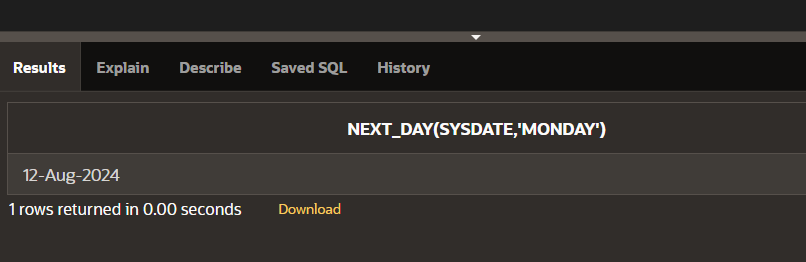
**from dual;**

****

**NEXT DAY**

**select next\_day(sysdate,'monday')**

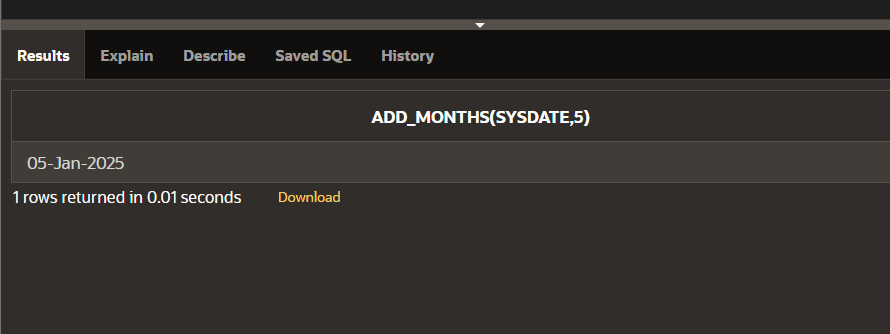
**from dual;**

****

**ADD MONTHS**

**select add\_months(sysdate,5)**

**from dual;**

****

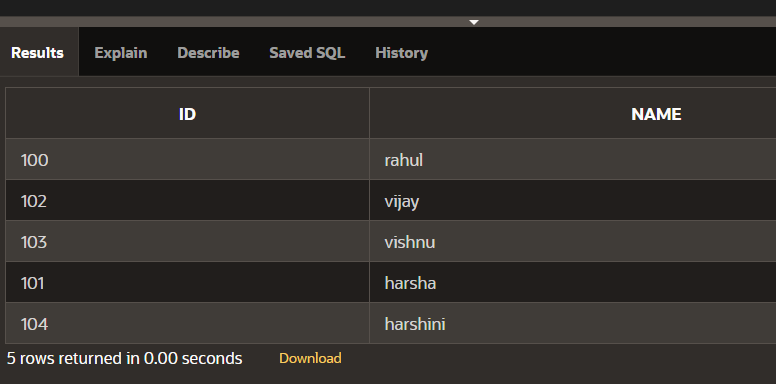
**MONTHS BETWEEN**

**select id,name**

**from singer**

**where months\_between**

**(sysdate,hiredate)<100;**

****

**Section 5**

**NVL FUNCTION**

**select id,nvl(dept,'not assigned')**

**from singer;**

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Description automatically generated**

**NVL DATE**

**SELECT NVL(TO\_CHAR(hiredate, 'YYYY-MM-DD'), 'no date')**

**FROM singer;**

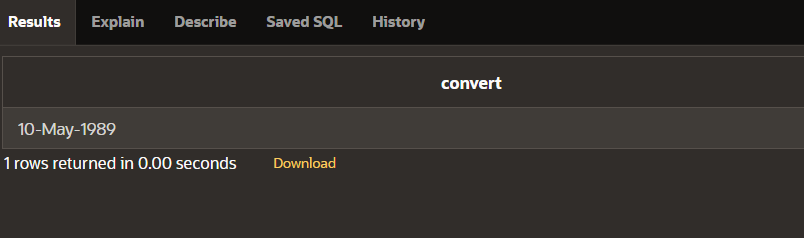
**A screenshot of a computer

Description automatically generated**

**CHARACTER TO DATE**

**select to\_date('may10,1989','fxmondd,yyyy') as "convert"**

**from dual;**

****

**NUMBER TO CHARACTER**

**select to\_char(salary,'$99,999')**

**from singer;**

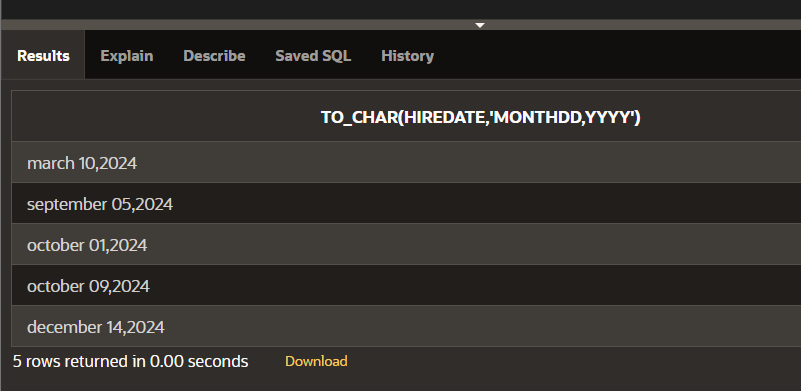
**A screenshot of a computer

Description automatically generated**

**DATE TO CHARACTER**

**select to\_char(hiredate,'month dd,yyyy')**

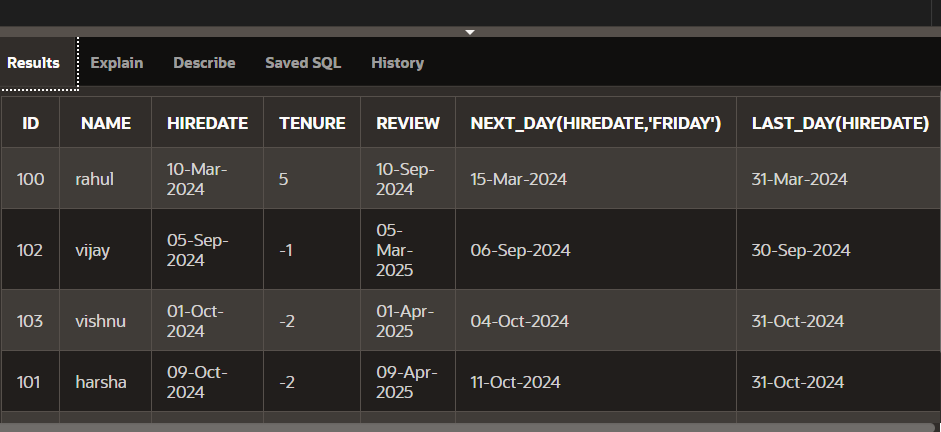
**from singer;**

****

**DATE FUNCTION**

**select id,name,hiredate,round(months\_between(sysdate,hiredate)) as tenure, add\_months(hiredate,6) as review, next\_day(hiredate,'friday'),last\_day(hiredate)**

**from singer;**

****

**Section 6**

**HEARIACHEY LEVEL**

**select level id,name,deptid**

**from emp**

**start with id=100**

**connect by prior id=deptid;**

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Description automatically generated with medium confidence**

**HIERACHIAL USING START WITH KEYWORD**

**select id,name,deptid**

**from emp**

**start with id=100**

**connect by prior id=deptid;**

**A black and grey rectangular object

Description automatically generated with medium confidence**

**FULL OUTER JOIN**

**select e.id,e.name,d.deptid,d.dept\_name**

**from emp e full outer join dept d**

**on (e.deptid=d.deptid);**

**A screenshot of a computer

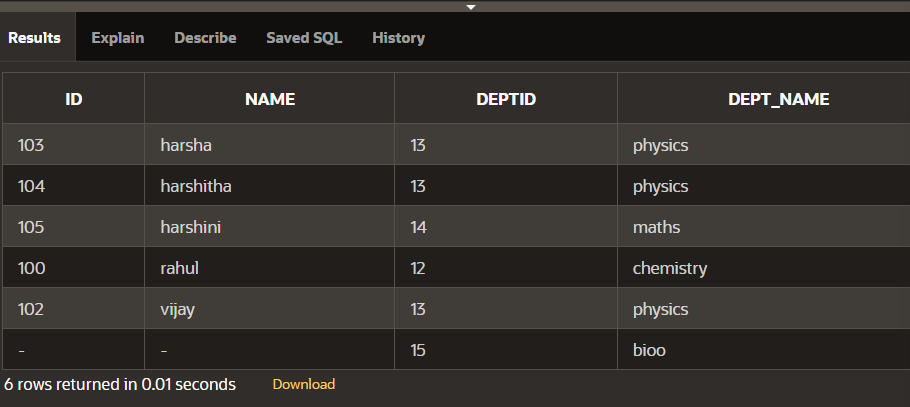
Description automatically generated**

**RIGHT OUTER JOIN**

**select e.id,e.name,d.deptid,d.dept\_name**

**from emp e right outer join dept d**

**on (e.deptid=d.deptid);**

****

**LEFT OUTER JOIN**

**select e.id,e.name,d.deptid,d.dept\_name**

**from emp e left outer join dept d**

**on (e.deptid=d.deptid);**

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Description automatically generated**

**ON CLAUSE**

**select id,name,dept\_name**

**from emp e join dept d**

**on(e.deptid=d.deptid);**

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Description automatically generated**

**USING CLAUSE**

**select id,name,deptid,dept\_name**

**from emp join dept using (deptid);**

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Description automatically generated**

**CROSS JOIN**

**select id,name,dept\_name**

**from emp cross join dept;**

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Description automatically generated**

**NATURAL JOIN**

**select id,name,deptid,dept\_name**

**from emp natural join dept;**

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Description automatically generated**

**7.1 Oracle Equijoin and Cartesian Product**

**CREATE TABLE employ(**

**eno VARCHAR(14),**

**ename VARCHAR(14),**

**eadhress VARCHAR(15),**

**epno VARCHAR(15),**

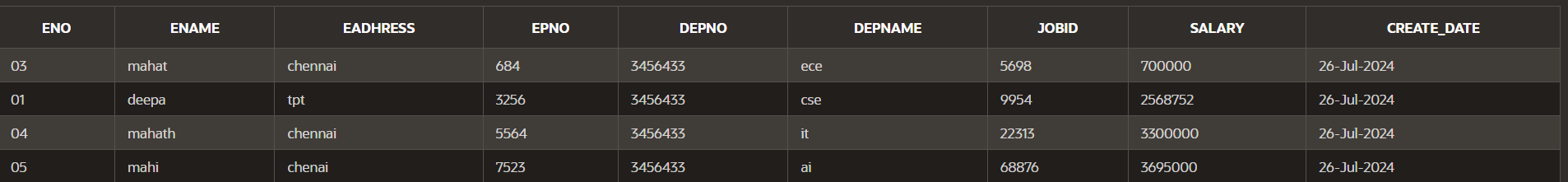
**depno VARCHAR(14),**

**depname VARCHAR(14),**

**jobid VARCHAR(10),**

**salary VARCHAR(10),**

**create\_date DATE DEFAULT SYSDATE);**

****

**CREATE TABLE jobs (**

**job\_id VARCHAR(10) PRIMARY KEY,**

**job\_title VARCHAR(50) NOT NULL,**

**min\_salary DECIMAL(8, 2),**

**max\_salary DECIMAL(8, 2)**

**);**

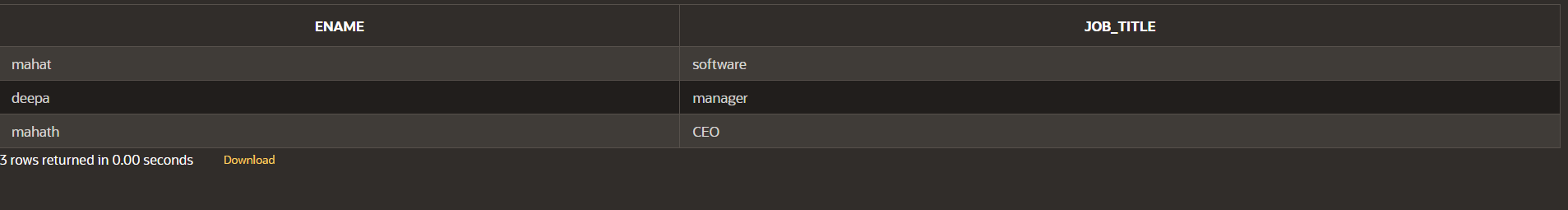
****

**PROPRIETARY JOINS:**

**SELECT employ.ename, jobs.job\_title**

**FROM employ,jobs**

**WHERE employ.jobid=jobs.job\_id;**

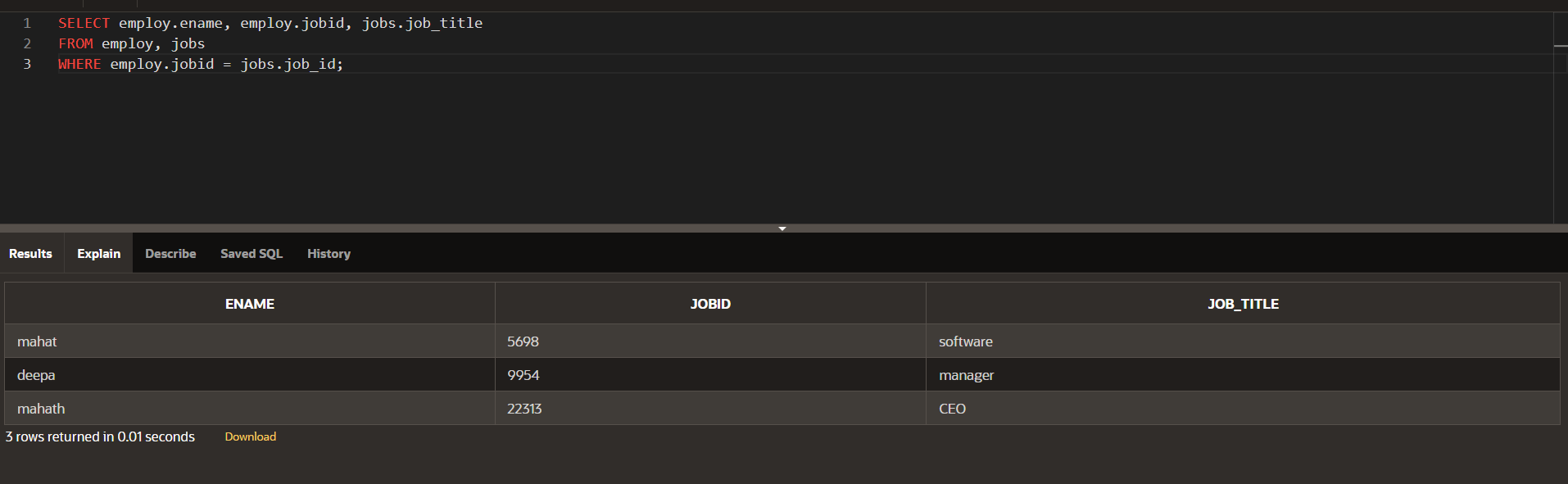
****

**EQUIJOIN:**

**SELECT employ.ename, employ.jobid, jobs.job\_title**

**FROM employ, jobs**

**WHERE employ.jobid = jobs.job\_id;**

****

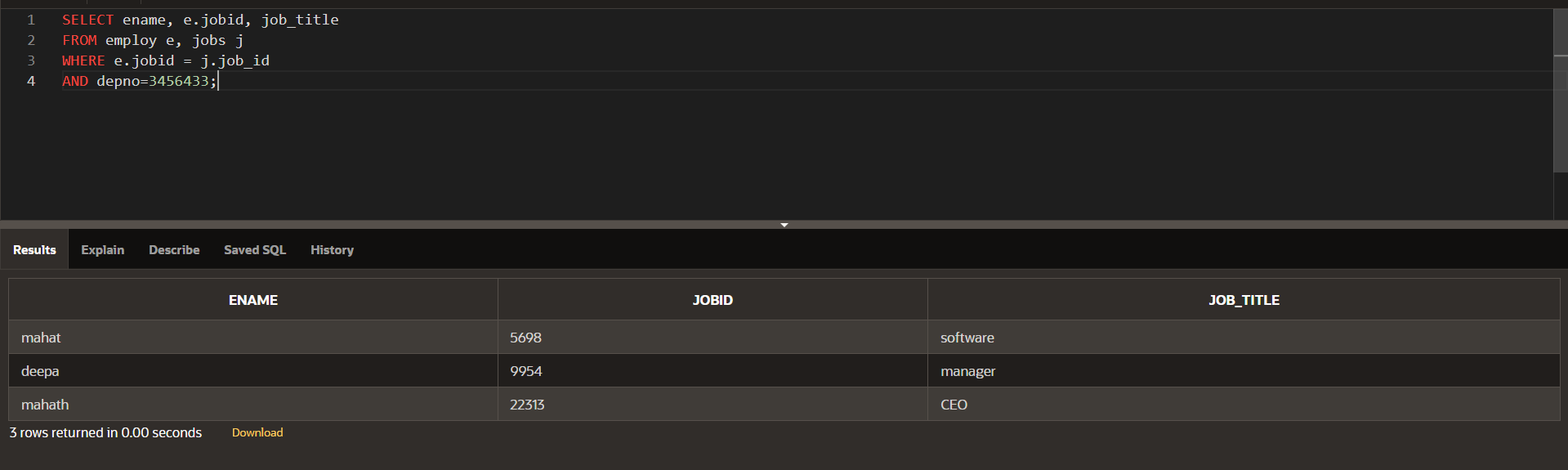
**ALIASES:**

**SELECT ename, e.jobid, job\_title**

**FROM employ e, jobs j**

**WHERE e.jobid = j.job\_id**

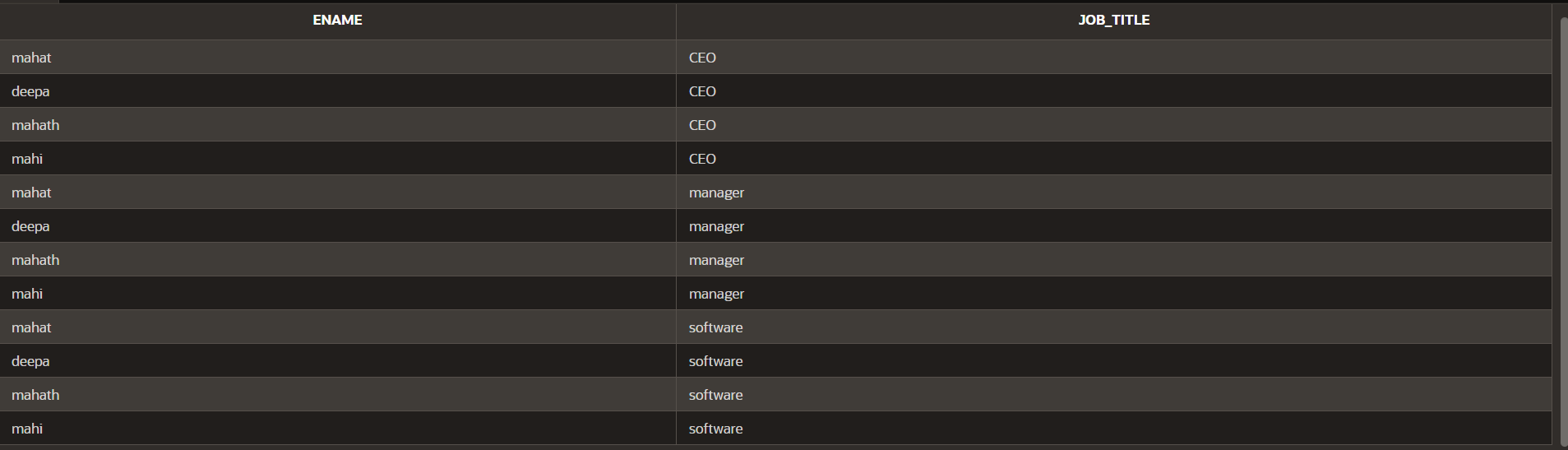
**AND depno=3456433;**

****

**CARTESIAN PRODUCT JOIN:**

**SELECT employ.ename,jobs.job\_title**

**FROM employ,jobs;**

****

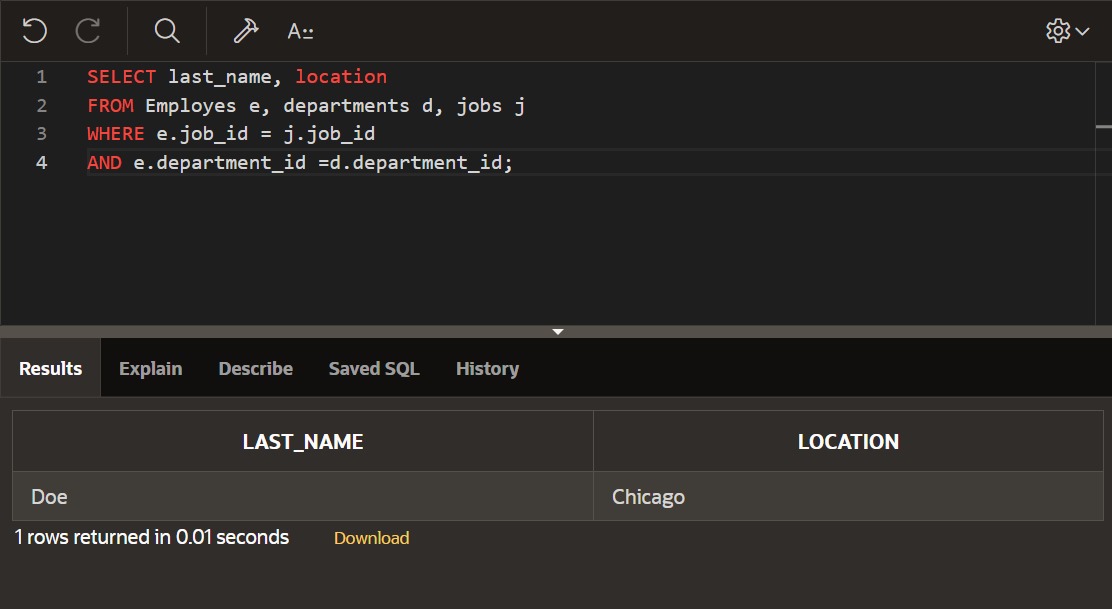
**JOIN:**

**SELECT last\_name, location**

**FROM Employes e, departments d, jobs j**

**WHERE e.job\_id = j.job\_id**

**AND e.department\_id =d.department\_id;**

****

**DP\_7.2:**

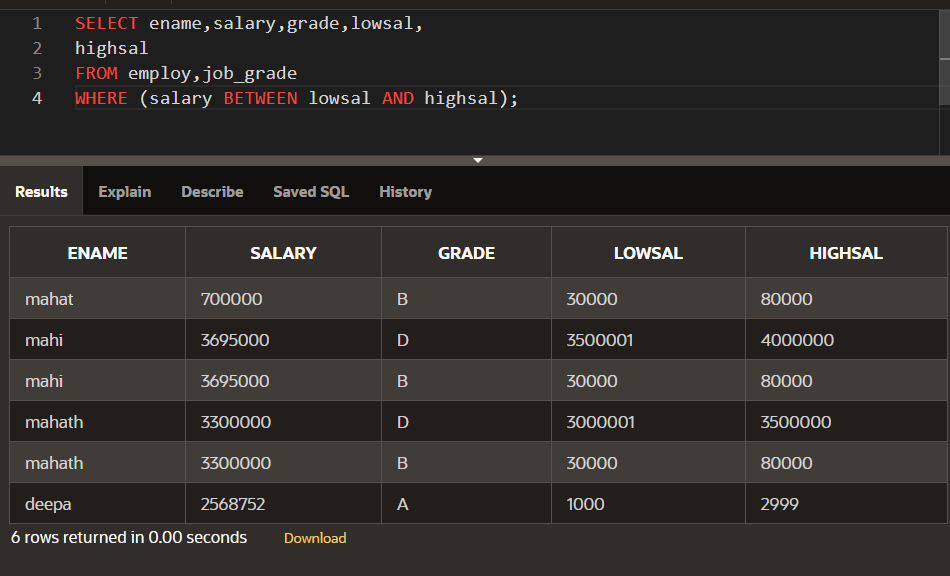
**Nonequijoin:**

**SELECT ename,salary,grade,lowsal,**

**highsal**

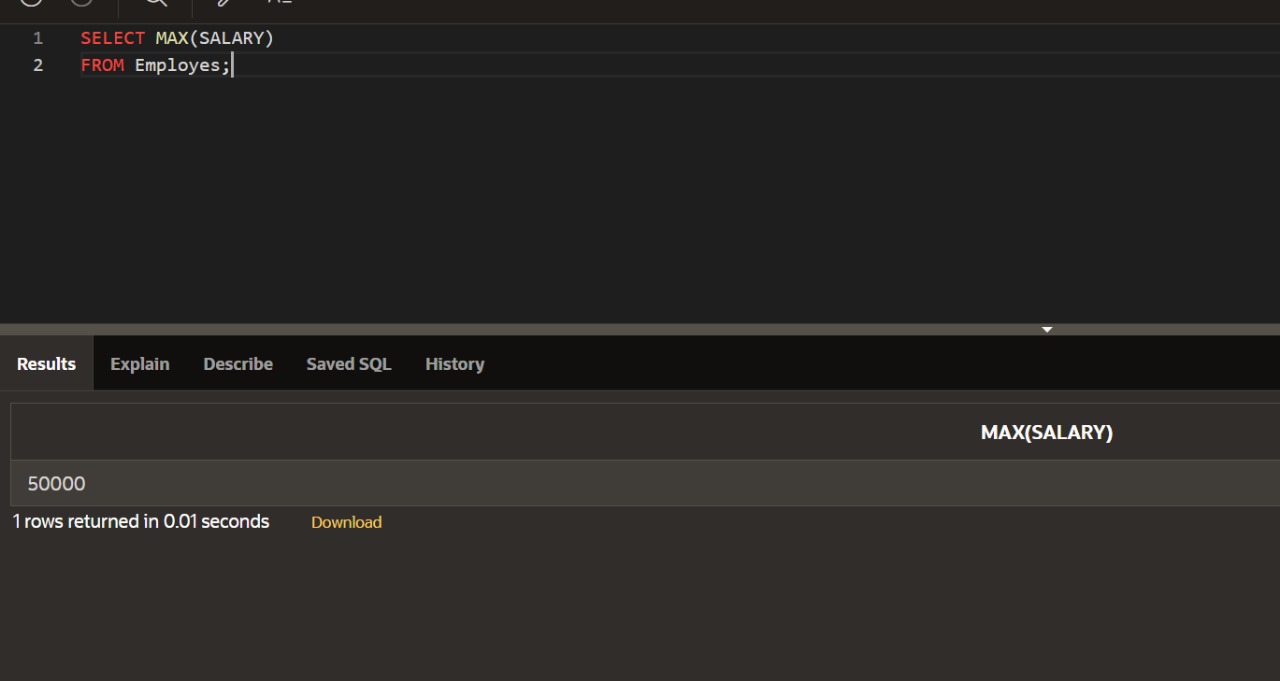
**FROM employ,job\_grade**

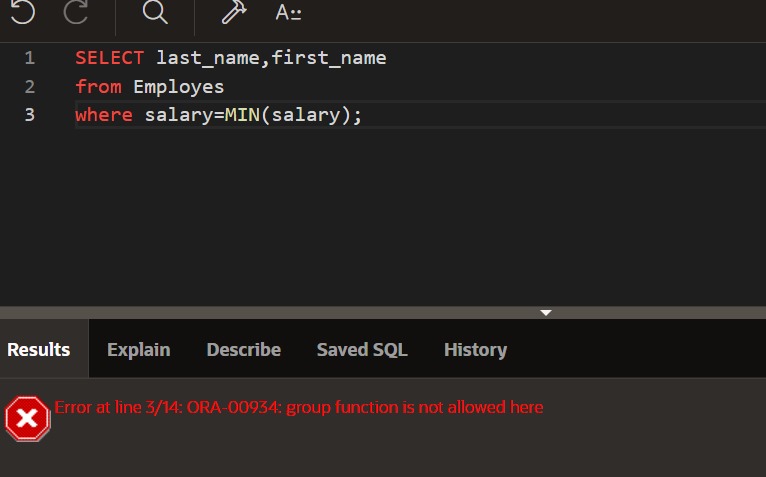
**WHERE (salary BETWEEN lowsal AND highsal);**

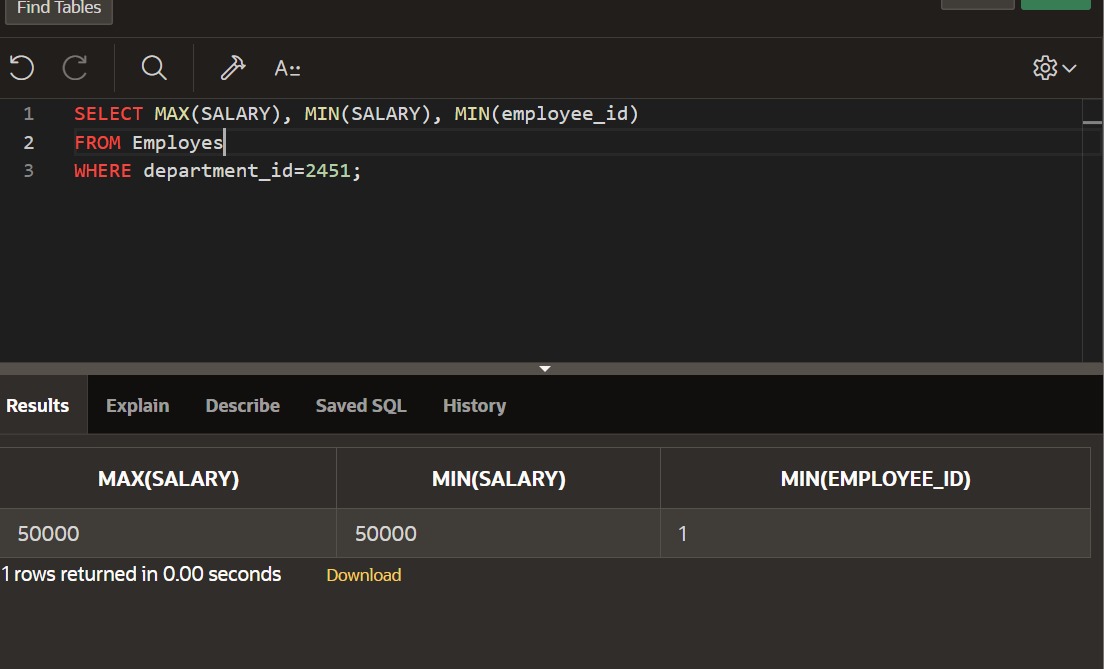
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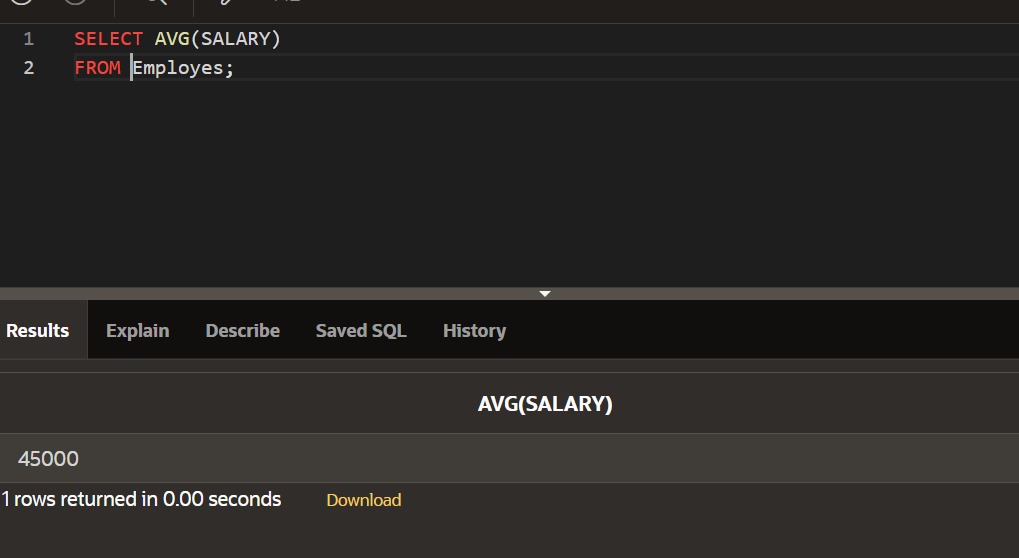
**SECTION 8**

**DP\_8.1:**

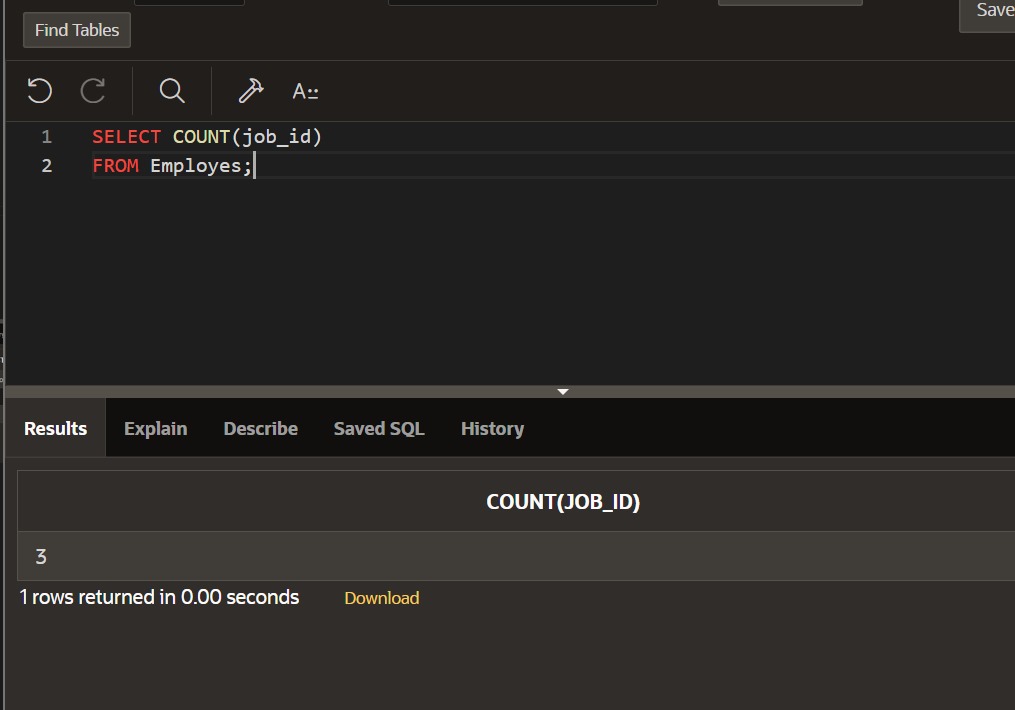
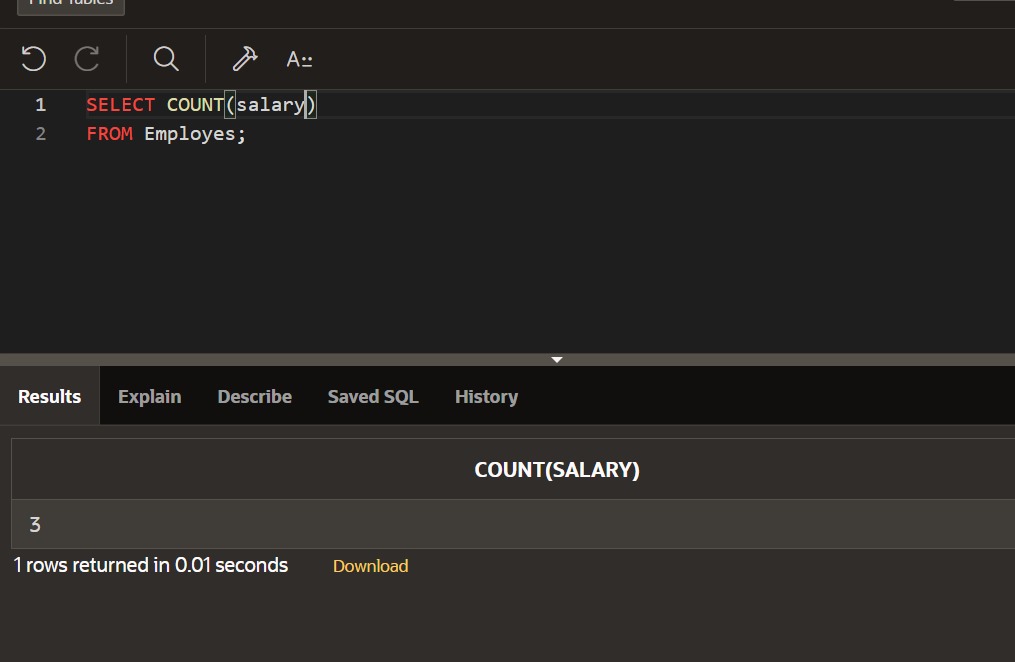
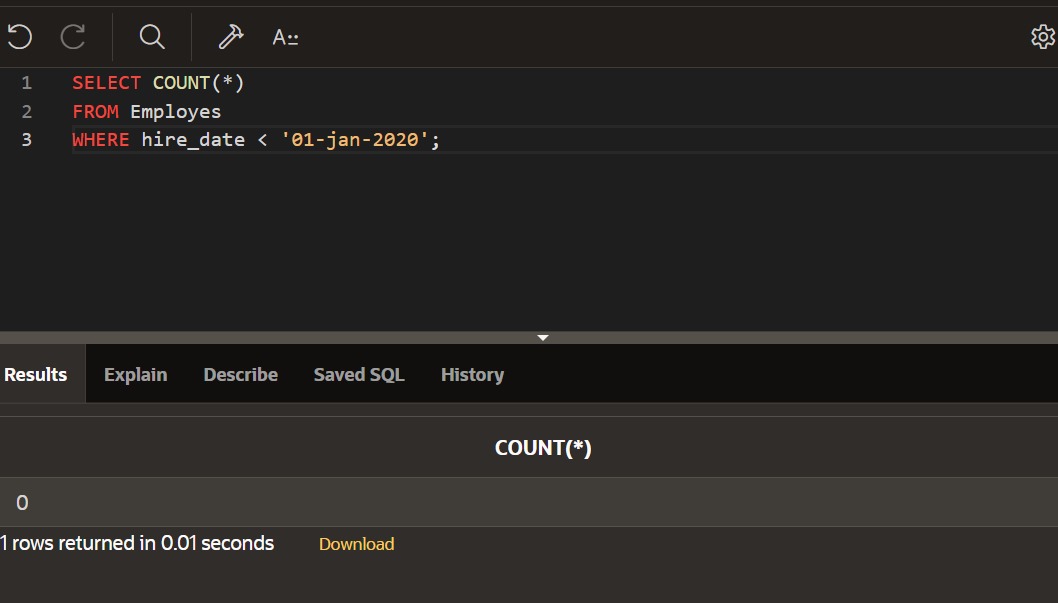
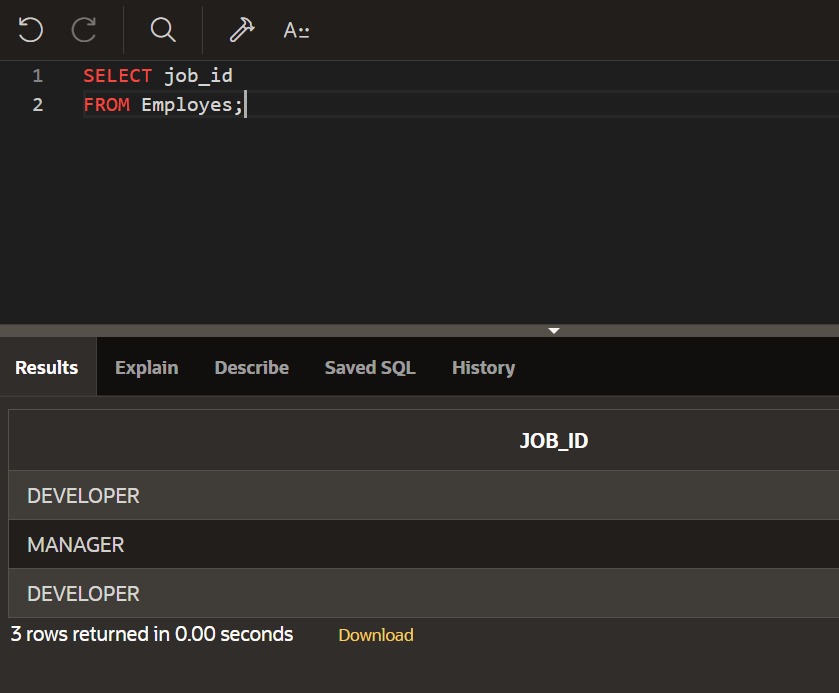
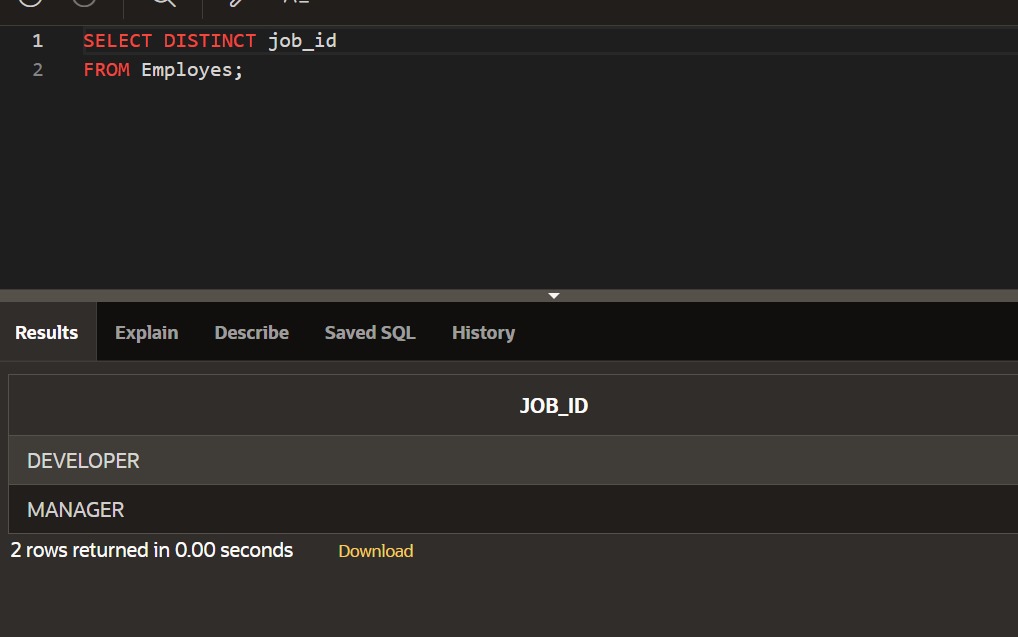
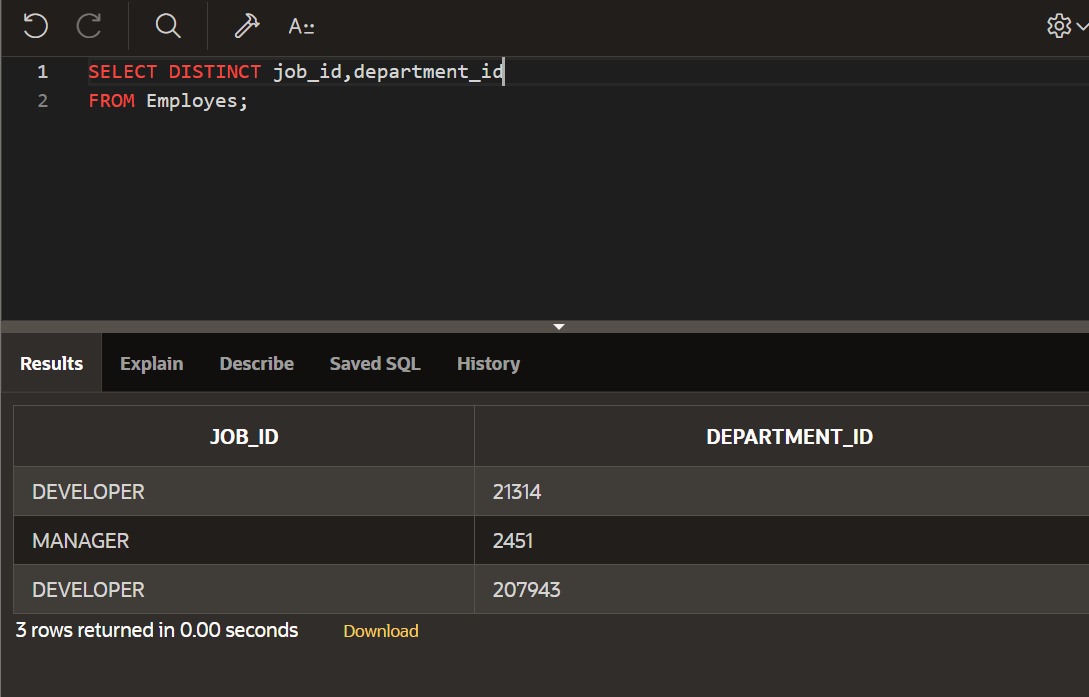
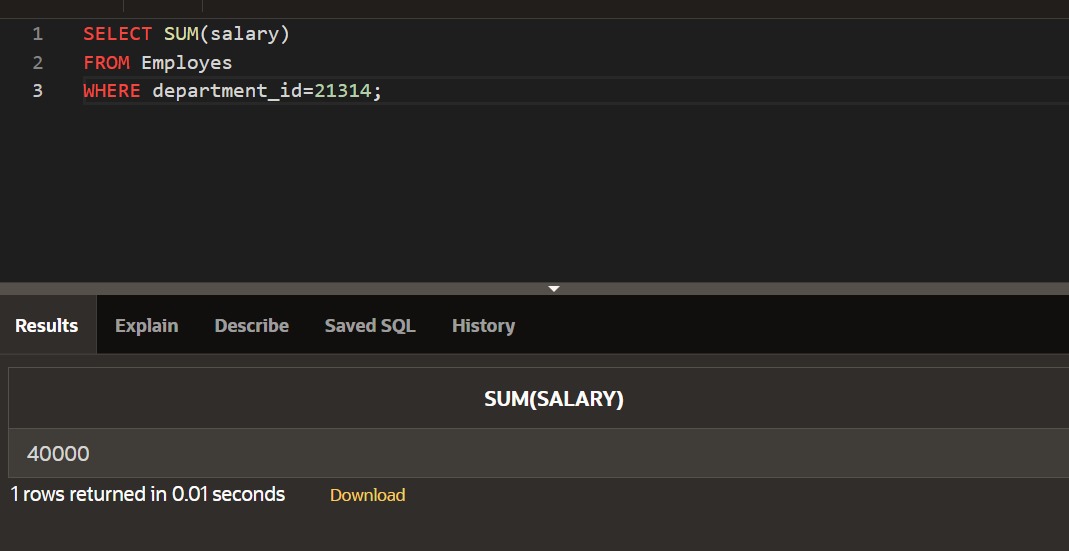
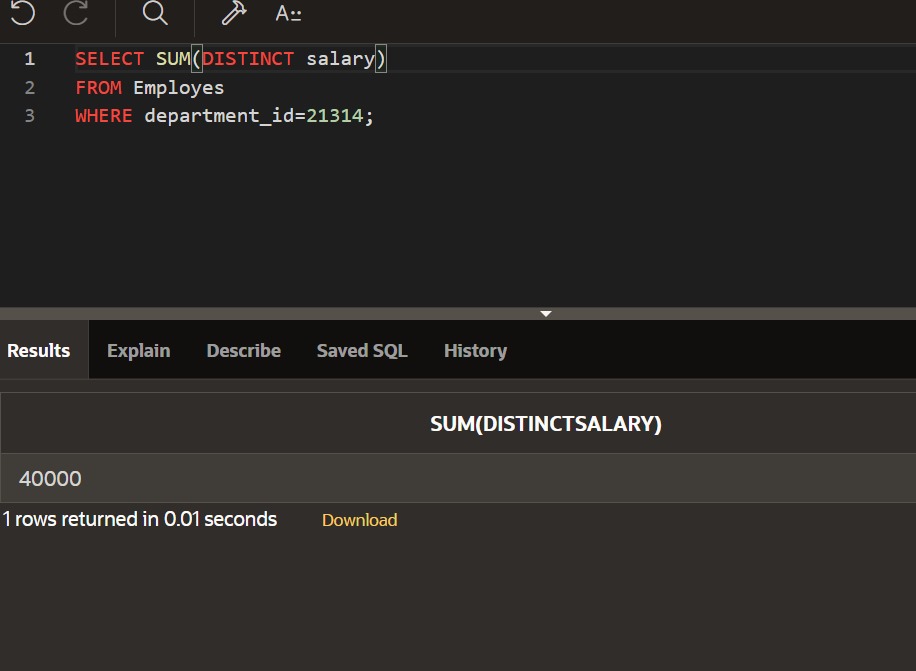
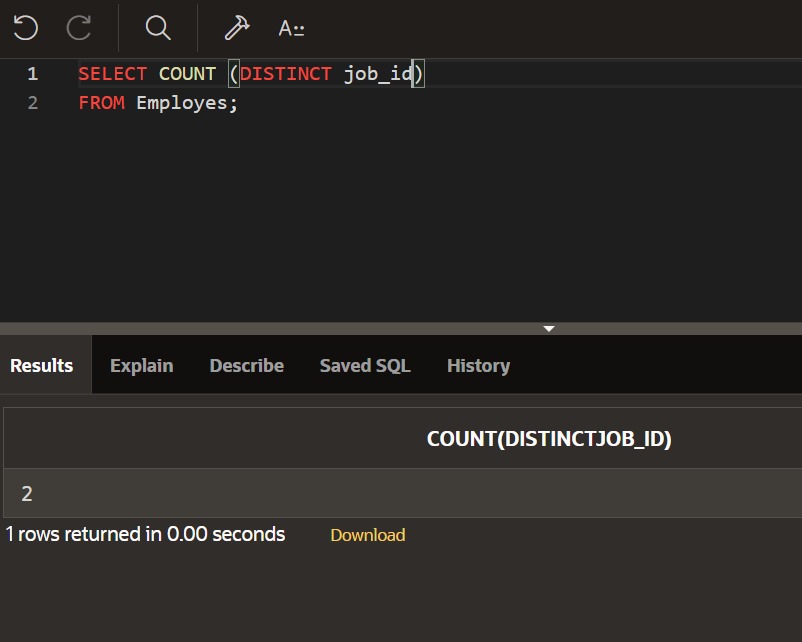
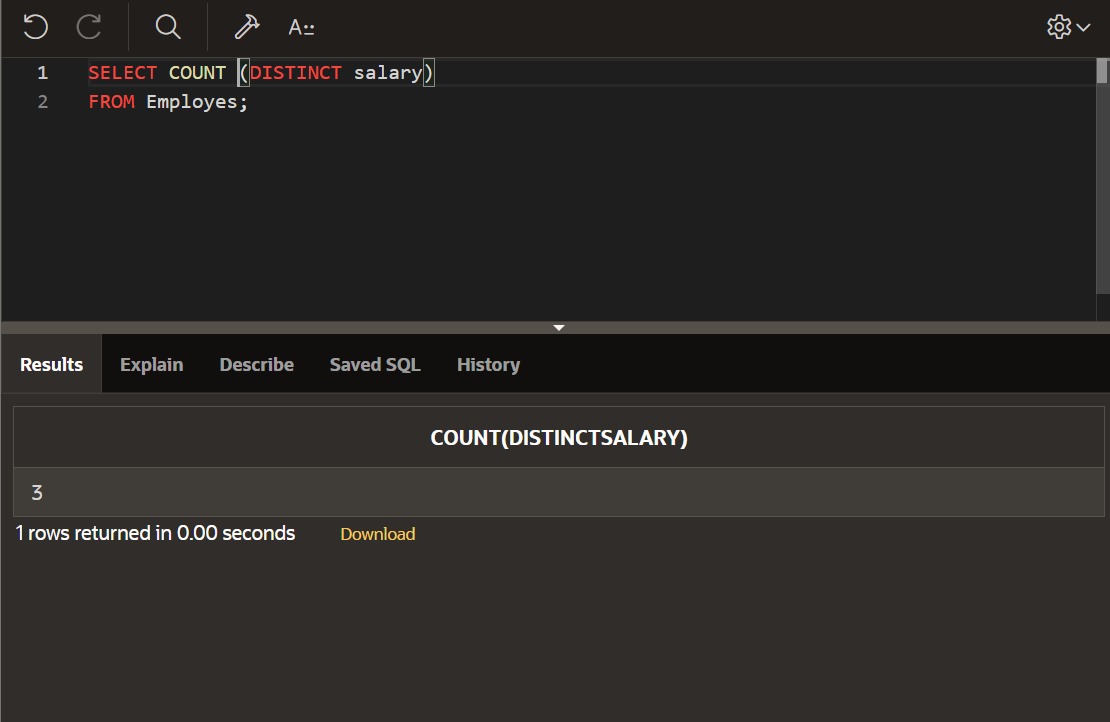
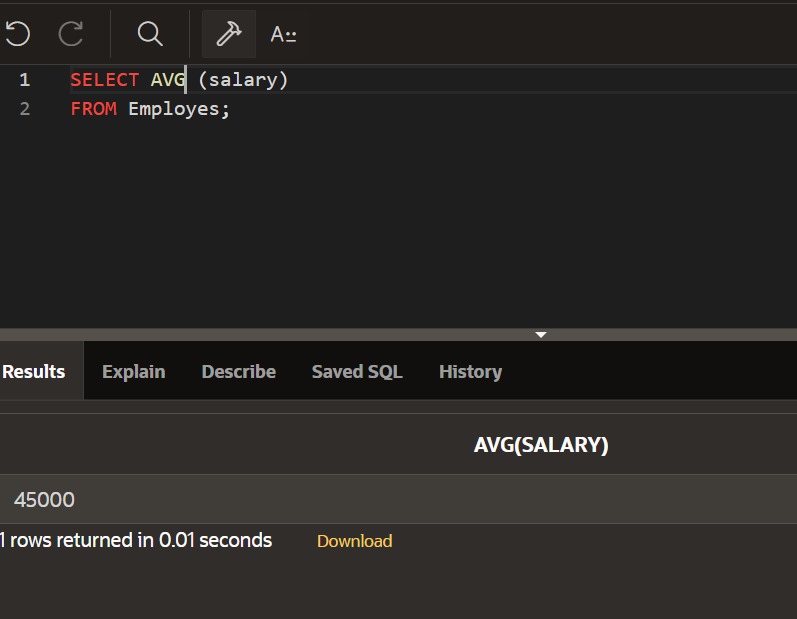
****

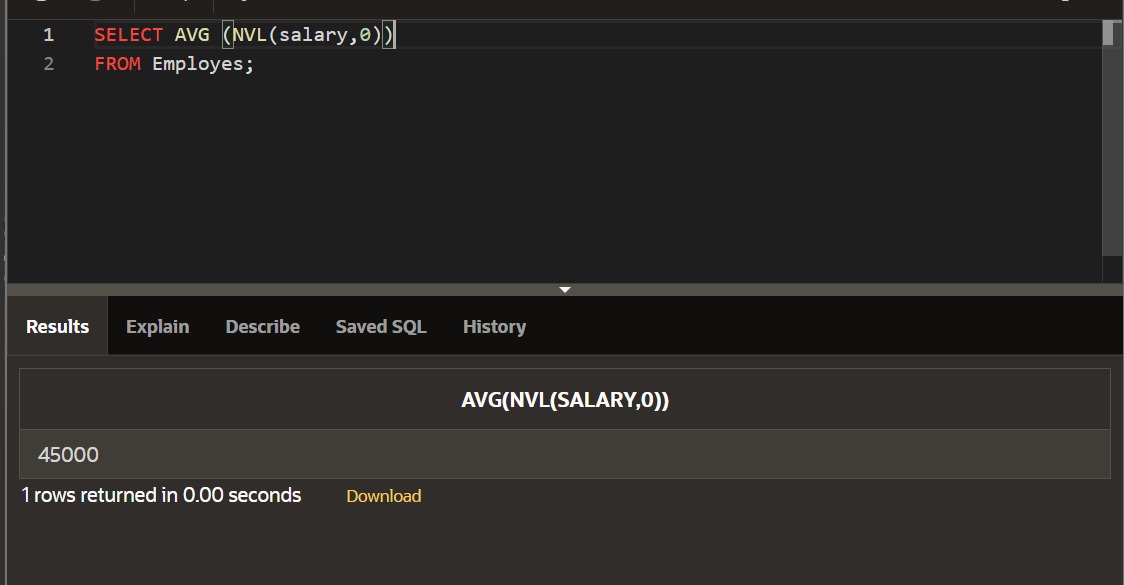
****

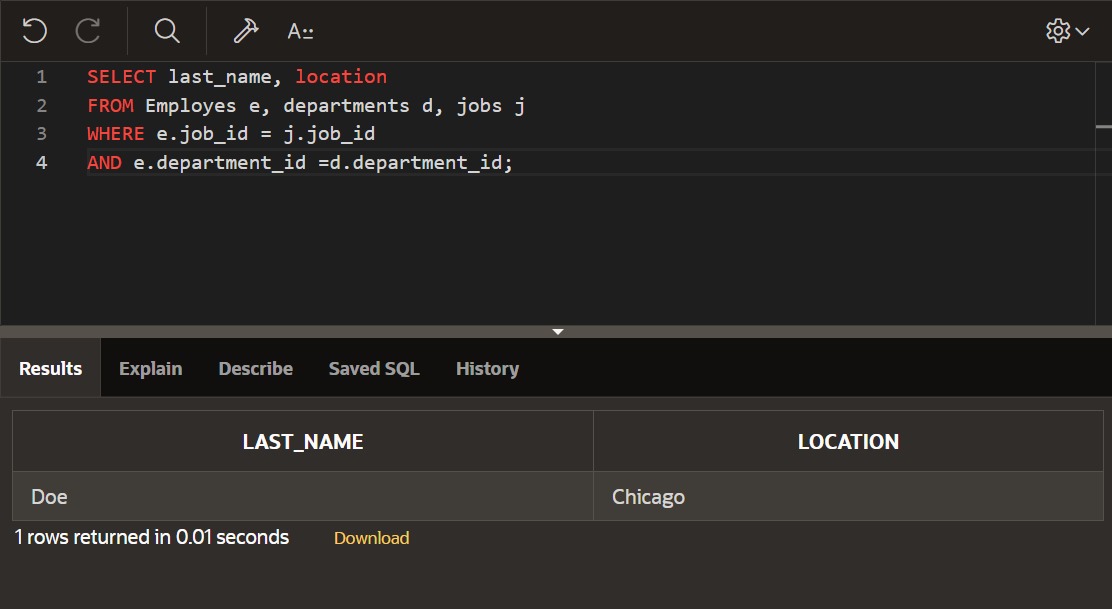
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**DP\_8.2:**

**          **

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**Section 9**

**DP 9.1:**

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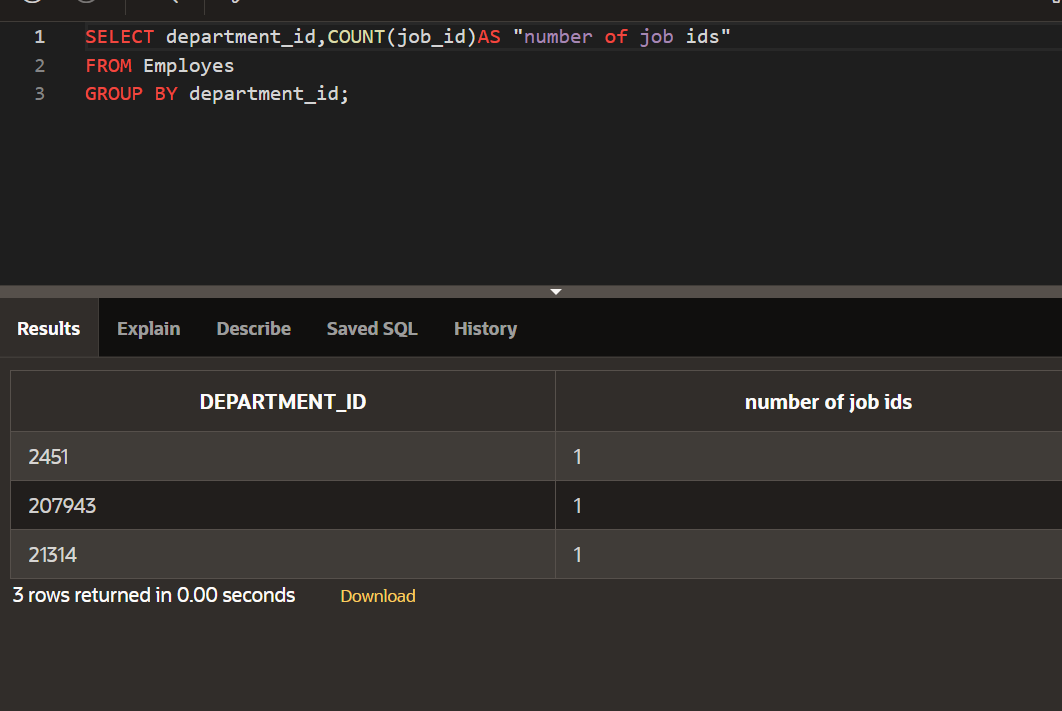
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**DP 9.2:**

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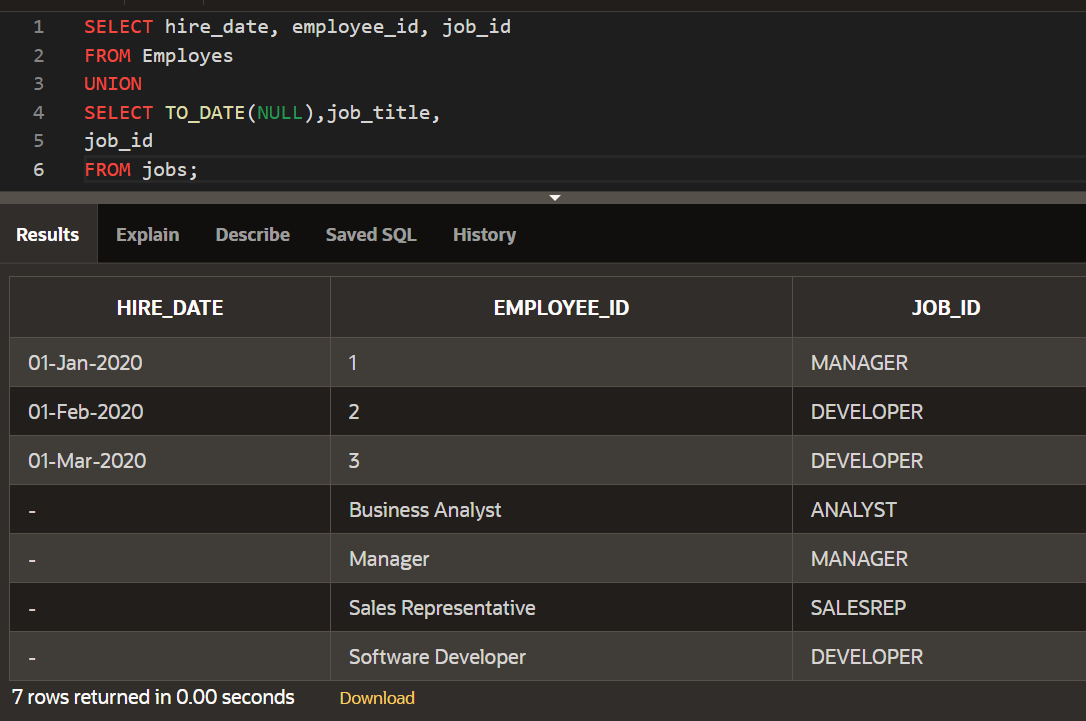
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**DP 9.3:**

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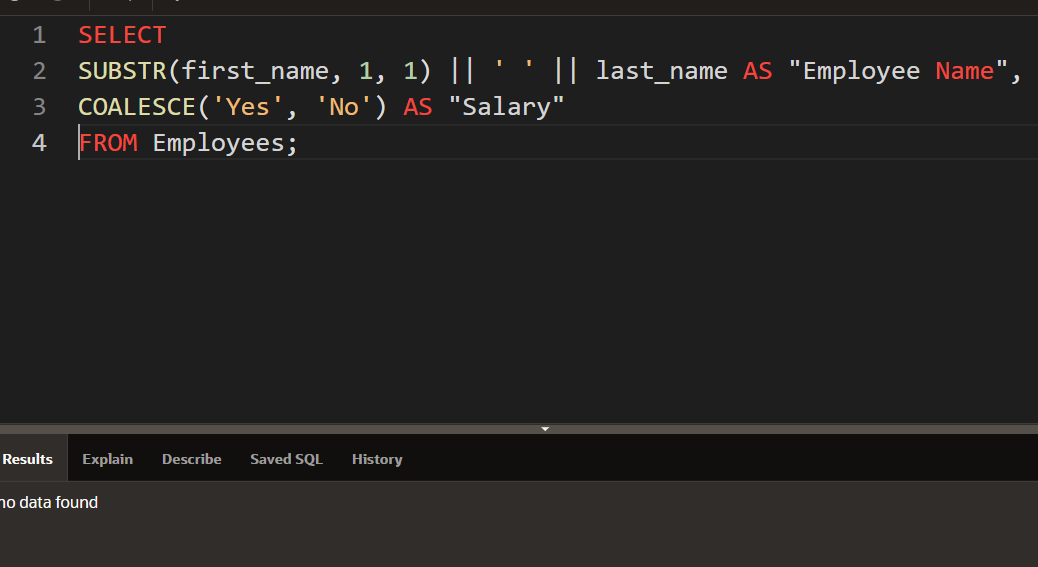
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**Section-11**

**DP 11.1:**

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**Section-14**

**DP 14.1:**

