# InnerJoin

1) Display the Cartesian product of the party and candidate table

```
93  SELECT * FROM Hert_candidate CROSS JOIN Hert_party;
```

Script Output x | Query Result x

SQL | All Rows Fetched: 24 in 0.047 seconds

| | LNAME | FNAME | ADDRESS | SALARY | DOB | PARTYID | PARTYID_1 | PARTYDESC |
|---|---|---|---|---|---|---|---|---|
| 1 | jennet | abraham | Berkeley, CA. | 280000 | 01-FEB-60 | 1 | 1 | Democrat |
| 2 | Green | abraham | Oakland, CA. | 290000 | 01-FEB-64 | 1 | 1 | Democrat |
| 3 | gren | cheryl | Berkeley, CA. | (null) | 01-FEB-68 | 2 | 1 | Democrat |
| 4 | greeenr | albert | Salt Lake City, UT | 300000 | 01-FEB-70 | 2 | 1 | Democrat |
| 5 | gran | anne | Salt Lake City, UT | 310000 | 01-FEB-61 | 3 | 1 | Democrat |
| 6 | mama | mia | pepper City, UT | 320000 | 01-FEB-68 | (null) | 1 | Democrat |
| 7 | jennet | abraham | Berkeley, CA. | 280000 | 01-FEB-60 | 1 | 2 | Republican |
| 8 | Green | abraham | Oakland, CA. | 290000 | 01-FEB-64 | 1 | 2 | Republican |
| 9 | gren | cheryl | Berkeley, CA. | (null) | 01-FEB-68 | 2 | 2 | Republican |
| 10 | greeenr | albert | Salt Lake City, UT | 300000 | 01-FEB-70 | 2 | 2 | Republican |
| 11 | gran | anne | Salt Lake City, UT | 310000 | 01-FEB-61 | 3 | 2 | Republican |
| 12 | mama | mia | pepper City, UT | 320000 | 01-FEB-68 | (null) | 2 | Republican |

Script Output x | Query Result x

SQL | All Rows Fetched: 24 in 0.047 seconds

| | LNAME | FNAME | ADDRESS | SALARY | DOB | PARTYID | PARTYID_1 | PARTYDESC |
|---|---|---|---|---|---|---|---|---|
| 13 | jennet | abraham | Berkeley, CA. | 280000 | 01-FEB-60 | 1 | 3 | Independent |
| 14 | Green | abraham | Oakland, CA. | 290000 | 01-FEB-64 | 1 | 3 | Independent |
| 15 | gren | cheryl | Berkeley, CA. | (null) | 01-FEB-68 | 2 | 3 | Independent |
| 16 | greeenr | albert | Salt Lake City, UT | 300000 | 01-FEB-70 | 2 | 3 | Independent |
| 17 | gran | anne | Salt Lake City, UT | 310000 | 01-FEB-61 | 3 | 3 | Independent |
| 18 | mama | mia | pepper City, UT | 320000 | 01-FEB-68 | (null) | 3 | Independent |
| 19 | jennet | abraham | Berkeley, CA. | 280000 | 01-FEB-60 | 1 | 4 | (null) |
| 20 | Green | abraham | Oakland, CA. | 290000 | 01-FEB-64 | 1 | 4 | (null) |
| 21 | gren | cheryl | Berkeley, CA. | (null) | 01-FEB-68 | 2 | 4 | (null) |
| 22 | greeenr | albert | Salt Lake City, UT | 300000 | 01-FEB-70 | 2 | 4 | (null) |
| 23 | gran | anne | Salt Lake City, UT | 310000 | 01-FEB-61 | 3 | 4 | (null) |
| 24 | mama | mia | pepper City, UT | 320000 | 01-FEB-68 | (null) | 4 | (null) |

2) Display the lastname and the party description of each individual

```
96  SELECT lname, partydesc FROM Hert_candidate, Hert_party WHERE Hert_party.partyid = Hert_candidate.partyid;
```

Script Output | Query Result

SQL | All Rows Fetched: 5 in 0.057 seconds

| | LNAME | PARTYDESC |
|---|---|---|
| 1 | jennet | Democrat |
| 2 | Green | Democrat |
| 3 | gren | Republican |
| 4 | greeenr | Republican |
| 5 | gran | Independent |

3) Display the last name and the party dscription of each individual. If there is not a party description, then display no description. (Use the NVL function)

```
99  SELECT lname, NVL(partydesc, 'NoDESC')
100 FROM Hert_candidate, Hert_party
101 WHERE Hert_party.partyid = Hert_candidate.partyid OR Hert_party.partyid = NULL;
```

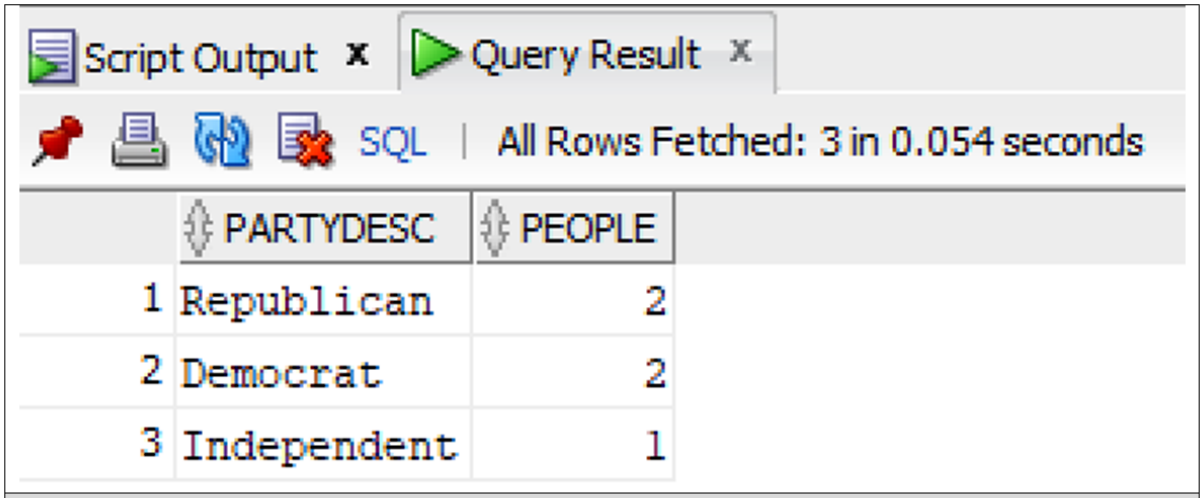
Script Output | Query Result

SQL | All Rows Fetched: 5 in 0.051 seconds

| | LNAME | NVL(PARTYDESC,'NODESC') |
|---|---|---|
| 1 | jennet | Democrat |
| 2 | Green | Democrat |
| 3 | gren | Republican |
| 4 | greeenr | Republican |
| 5 | gran | Independent |

4) Display the number of people in each party (display party_description)

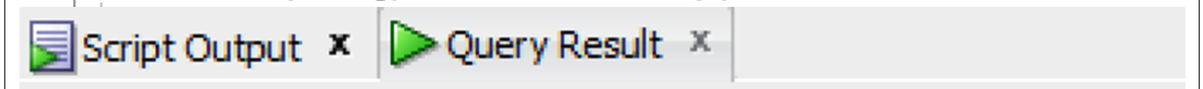
```
104 SELECT partydesc, COUNT(*) People
105 FROM Hert_party, Hert_candidate
106 WHERE Hert_party.partyid = Hert_candidate.partyid
107 GROUP By partydesc
108 HAVING count (*)>0;
```




| | PARTYDESC | PEOPLE |
|---|---|---|
| 1 | Republican | 2 |
| 2 | Democrat | 2 |
| 3 | Independent | 1 |

5) Display the number of people in each party for only those parties whose average salary is greater than 50,000. (Identify the party name)

```
111 SELECT partydesc, AVG(NVL(salary, 0)), COUNT(*) people
112 FROM Hert_party, Hert_candidate
113 WHERE salary > 50000 AND Hert_party.partyid = Hert_candidate.partyid
114 GROUP BY partydesc
115 HAVING AVG (salary) > 50000 AND count(*)>0;
```




| | PARTYDESC | AVG(NVL(SALARY,0)) | PEOPLE |
|---|---|---|---|
| 1 | Republican | 300000 | 1 |
| 2 | Democrat | 285000 | 2 |
| 3 | Independent | 310000 | 1 |