

```
### Self Join ====>
=====
```

\* A self-join joins a table to itself by pretending there are different tables involved.

\* This is accomplished by using table aliases.

\* One table has one alias, and the same table also has another alias.

\* For the purpose of executing the query, Oracle treats them as two different tables.

\* Syntax:

```
- SELECT a.column_name, b.column_name... FROM table1 a, table1 b WHERE a.col = b.col;
```

# WAQ to display name of every employee along with his manager's name.

```
- select e.ename as ename, m.ename as manager from emp e, emp m where e.mgr = m.empno;
```

ENAME	MANAGER
-----	-----
FORD	JONES
SCOTT	JONES
JAMES	BLACK
TURNER	BLACK
MARTIN	BLACK
WARD	BLACK
ALLEN	BLACK
MILLER	CLARK
ADAMS	SCOTT
CLARK	KING
BLACK	KING
JONES	KING
SMITH	FORD

# WAQ to display name of every employee along with his manager's name of all the employees who work in same dept as their managers.

```
- select e.ename as ename, m.ename as manager from emp e, emp m where e.mgr = m.empno and e.deptno = m.deptno;
```

ENAME	MANAGER
-----	-----
FORD	JONES
SCOTT	JONES
JAMES	BLACK
TURNER	BLACK
MARTIN	BLACK
WARD	BLACK
ALLEN	BLACK
MILLER	CLARK
ADAMS	SCOTT
CLARK	KING
SMITH	FORD

# WAQ to display name of every employee along with his manager's name of all the employees who were hired after their managers.

```
- select e.ename as ename, e.hiredate, m.ename as manager, m.hiredate from emp
e, emp m where e.mgr = m.empno and e.hiredate > m.hiredate;
```

ENAME	HIREDATE	MANAGER	HIREDATE
FORD	03-DEC-81	JONES	02-APR-81
SCOTT	19-APR-87	JONES	02-APR-81
JAMES	01-DEC-81	BLACK	01-MAY-81
TURNER	08-SEP-81	BLACK	01-MAY-81
MARTIN	28-SEP-81	BLACK	01-MAY-81
MILLER	23-JAN-82	CLARK	09-JUN-81
ADAMS	23-MAY-87	SCOTT	19-APR-87

```
# WAQ to display name of all the colleagues of the employee BLACK.
```

```
- select e1.ename from emp e1, emp e2 where e1.deptno = e2.deptno and e2.ename
= 'BLACK';
```

```
ENAME
```

```
-----
```

```
ALLEN
WARD
MARTIN
BLACK
TURNER
JAMES
```

```
# Modify the previous query to remove the name of BLAKE from the output.
```

```
- select e1.ename from emp e1, emp e2 where e1.deptno = e2.deptno and e2.ename
= 'BLACK' and e1.ename != 'BLACK';
```

```
ENAME
```

```
-----
```

```
ALLEN
WARD
MARTIN
TURNER
JAMES
```