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Statements and Results

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All Statements

Statement 1



```
create table department(
    dno varchar2(20) primary key,
    dname varchar2(20),
    join_date date
)
```

Table created.

Statement 2



```
Create table employee(
    ssn varchar2(20) primary key,
    name varchar2(20),
    age number,
    address varchar2(20),
    sex char(1),
    salary number,
    superssn references employee (ssn),
    dno references department (dno)
)
```

Table created.

TABLE EMPLOYEE

Column	Null?	Type
SSN	NOT NULL	VARCHAR2(20)
NAME	-	VARCHAR2(20)
AGE	-	NUMBER
ADDRESS	-	VARCHAR2(20)
SEX	-	CHAR(1)
SALARY	-	NUMBER
SUPERSSN	-	VARCHAR2(20)
DNO	-	VARCHAR2(20)

Download CSV

8 rows selected.

Statement 9



```
insert into employee('12345','Test','22','Mumbai','M','55000')
```

ORA-00928: missing SELECT keyword

Statement 10



```
insert into employee('23451','Test2','32','Bangalore','F','45000')
```

TABLE EMPLOYEE

Column	Null?	Type
SSN	NOT NULL	VARCHAR2(20)
NAME	-	VARCHAR2(20)
AGE	-	NUMBER
ADDRESS	-	VARCHAR2(20)
SEX	-	CHAR(1)
SALARY	-	NUMBER
SUPERSSN	-	VARCHAR2(20)
DNO	-	VARCHAR2(20)

Download CSV

8 rows selected.

Statement 20



```
insert into employee values('12345','Test','22','Mumbai','M','55000',NULL,NULL)
```

1 row(s) inserted.

Statement 21



```
insert into employee values('23451','Test2','32','Bangalore','F','45000',NULL,NULL)
```

1 row(s) inserted.

Statement 22



```
insert into employee values('34512','Test3','42','Hyderabad','M','50000',NULL,NULL)
```

1 row(s) inserted.

Statement 23



```
insert into employee values('45123','Test4','52','Dehli','F','40000',NULL,NULL)
```

1 row(s) inserted.

Statement 24



```
insert into employee values('51234','Test5','62','Chennai','M','60000',NULL,NULL)
```

1 row(s) inserted.

Statement 25



```
desc employee
```

TABLE EMPLOYEE

Column	Null?	Type
SSN	NOT NULL	VARCHAR2(20)
NAME	-	VARCHAR2(20)
AGE	-	NUMBER
ADDRESS	-	VARCHAR2(20)

SEX	-	CHAR(1)
SALARY	-	NUMBER
SUPERSSN	-	VARCHAR2(20)
DNO	-	VARCHAR2(20)

Download CSV

Statement 26



Select* from employee

SSN	NAME	AGE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
12345	Test	22	Mumbai	M	55000	-	-
23451	Test2	32	Bangalore	F	45000	-	-
34512	Test3	42	Hyderabad	M	50000	-	-
45123	Test4	52	Dehli	F	40000	-	-
51234	Test5	62	Chennai	M	60000	-	-

Download CSV

5 rows selected.

Statement 27



desc department

TABLE DEPARTMENT

Column	Null?	Type
DNO	NOT NULL	VARCHAR2(20)
DNAME	-	VARCHAR2(20)
JOIN_DATE	-	DATE

[Download CSV](#)

3 rows selected.

Statement 28



insert into department values('1','Comps','10-jun-2021')

1 row(s) inserted.

Statement 29



insert into department values('2','IT','21-jul-2021')

1 row(s) inserted.

Statement 30



insert into department values('3','AIDS','30-aug-2021')

1 row(s) inserted.

Statement 31



```
select* from department
```

DNO	DNAME	JOIN_DATE
1	Comps	10-JUN-21
2	IT	21-JUL-21
3	AIDS	30-AUG-21

[Download CSV](#)

3 rows selected.

Statement 32



```
update employee set dno=1 where sex='M'
```

3 row(s) updated.

Statement 33



```
update employee set dno=2 where sex='F'
```

2 row(s) updated.

Statement 34



```
update employee set dno=3 where ssn='34512'
```

Statement 39



```
update employee set superssn='43215' where ssn='51234'
```

ORA-02291: integrity constraint (SQL_ZSUBWPXKMWLPDYTJXXWUBSNPC.SYS_C00121246568) violated

Statement 40



```
select* from employee
```

SSN	NAME	AGE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
12345	Test	22	Mumbai	M	55000	-	1
23451	Test2	32	Bangalore	F	45000	-	2
34512	Test3	42	Hyderabad	M	50000	-	3
45123	Test4	52	Dehli	F	40000	-	2
51234	Test5	62	Chennai	M	60000	-	1

Download CSV

5 rows selected.

Statement 41



```
update employee set superssn='54321' where ssn='12345'
```

ORA-02291: integrity constraint (SQL_ZSUBWPXKMWLPDYTJXXWUBSNPC.SYS_C00121246568) violated

Statement 42



```
select* from employee
```

SSN	NAME	AGE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
12345	Test	22	Mumbai	M	55000	-	1
23451	Test2	32	Bangalore	F	45000	-	2
34512	Test3	42	Hyderabad	M	50000	-	3
45123	Test4	52	Dehli	F	40000	-	2
51234	Test5	62	Chennai	M	60000	-	1

Download CSV

5 rows selected.

Statement 43



```
update employee set superssn='54321' where name='Test'
```

ORA-02291: integrity constraint (SQL_ZSUBWPXKMWLDPYTJXXWUBSNPC.SYS_C00121246568) violated



Statement 44



```
select* from employee
```

SSN	NAME	AGE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
12345	Test	22	Mumbai	M	55000	-	1
23451	Test2	32	Bangalore	F	45000	-	2
34512	Test3	42	Hyderabad	M	50000	-	3
45123	Test4	52	Dehli	F	40000	-	2
51234	Test5	62	Chennai	M	60000	-	1

Download CSV

5 rows selected.

Statement 45



```
ALTER TABLE employee  
DROP COLUMN superssn
```

Table altered.

Statement 46



```
ALTER TABLE employee  
add superssn varchar2(20)
```

Table altered.

Statement 47



```
update employee set superssn='54321' where ssn='12345'
```

1 row(s) updated.

Statement 48



```
update employee set superssn='15432' where ssn='23451'
```

1 row(s) updated.

Statement 49



```
update employee set superssn='21543' where ssn='34512'
```

1 row(s) updated.

Statement 50



```
update employee set superssn='32154' where ssn='45123'
```

1 row(s) updated.

Statement 51



```
update employee set superssn='43214' where ssn='51234'
```

1 row(s) updated.

Statement 52



```
select* from employee
```

SSN	NAME	AGE	ADDRESS	SEX	SALARY	DNO	SUPERSSN
12345	Test	22	Mumbai	M	55000	1	54321

23451	Test2	32	Bangalore	F	45000	2	15432
34512	Test3	42	Hyderabad	M	50000	3	21543
45123	Test4	52	Dehli	F	40000	2	32154
51234	Test5	62	Chennai	M	60000	1	43214

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Statement 53



```
delete from employee where dno='3'
```

1 row(s) deleted.

Statement 54



```
select *from employee
```

SSN	NAME	AGE	ADDRESS	SEX	SALARY	DNO	SUPERSSN
12345	Test	22	Mumbai	M	55000	1	54321
23451	Test2	32	Bangalore	F	45000	2	15432
45123	Test4	52	Dehli	F	40000	2	32154
51234	Test5	62	Chennai	M	60000	1	43214

	<p>Download CSV</p>
Statement 55	<pre>alter table department rename to dept</pre> <p>Table altered.</p>
Statement 56	<pre>alter table dept rename to department</pre> <p>Table altered.</p>
Statement 57	<pre>alter table department add pincode</pre> <p>ORA-02263: need to specify the datatype for this column</p>
Statement 58	<pre>alter table department add pincode varchar(20)</pre> <p>Table altered.</p>
Statement 59	<pre>alter table department drop column pincode cascade constraints</pre>

Table altered.

Statement 60



```
desc department
```

TABLE DEPARTMENT

Column	Null?	Type
DNO	NOT NULL	VARCHAR2(20)
DNAME	-	VARCHAR2(20)
JOIN_DATE	-	DATE

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3 rows selected.

Statement 61



```
alter table department rename column dname to dept_name
```

Table altered.

Statement 62



```
alter table department rename column dept_name to dname
```

Table altered.

Statement 63



```
alter table department modify dname char(20)
```

Table altered.

Statement 64



```
alter table department modify dname char(20)
```

Table altered.

Statement 65



```
desc department
```

TABLE DEPARTMENT

Column	Null?	Type
DNO	NOT NULL	VARCHAR2(20)
DNAME	-	CHAR(20)
JOIN_DATE	-	DATE

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3 rows selected.

Statement 66



```
alter table department modify dname varchar2(20)
```

Table altered.

Statement **67**



```
select avg(salary) from employee
```

AVG(SALARY)

50000

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Statement **68**



```
select count(*) from employee
```

COUNT(*)

4

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Statement **69**



```
select count(distinct dno) from employee
```

COUNT(DISTINCTDNO)

2

Statement 70

`select dno,sum(salary),count(*) from employee group by(dno)`

DNO	SUM(SALARY)	COUNT(*)
2	85000	2
1	115000	2

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2 rows selected.

Statement 71

`select name from employee where salary>50000`

NAME
Test
Test5

Download CSV

2 rows selected.

Statement 72



```
select name,salary from employee where salary>50000
```

NAME	SALARY
Test	55000
Test5	60000

[Download CSV](#)

2 rows selected.

Statement 73



```
select name,salary from employee where sum(salary)>50000
```

ORA-00934: group function is not allowed here

Statement 74



```
select name,salary from employee where sum(salary)>50000 group by(dno)
```

ORA-00934: group function is not allowed here

Statement 75



```
select name,salary from employee where salary>50000
```

NAME	SALARY
Test	55000

	<table border="1"><tr><td>Test5</td><td>60000</td></tr></table>	Test5	60000			
Test5	60000					
	<button>Download CSV</button>					
Statement 76	<pre>select name from employee order by name desc</pre> <table border="1"><thead><tr><th>NAME</th></tr></thead><tbody><tr><td>Test5</td></tr><tr><td>Test4</td></tr><tr><td>Test2</td></tr><tr><td>Test</td></tr></tbody></table> <button>Download CSV</button> <p>4 rows selected.</p>	NAME	Test5	Test4	Test2	Test
NAME						
Test5						
Test4						
Test2						
Test						
Statement 77	<pre>select name,salary from employee order by name desc</pre> <table border="1"><thead><tr><th>NAME</th><th>SALARY</th></tr></thead><tbody><tr><td>Test5</td><td>60000</td></tr></tbody></table>	NAME	SALARY	Test5	60000	
NAME	SALARY					
Test5	60000					

Test4	40000
Test2	45000
Test	55000

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Statement 78



```
select* from employee where name='test' and salary>50000
```

no data found

Statement 79



```
select* from employee where name='test' and salary>'50000'
```

no data found

Statement 80



```
select* from employee where name='test5' and salary>50000
```

no data found

Statement 81



```
select* from employee
```

SSN	NAME	AGE	ADDRESS	SEX	SALARY	DNO	SUPERSSN

12345	Test	22	Mumbai	M	55000	1	54321
23451	Test2	32	Bangalore	F	45000	2	15432
45123	Test4	52	Dehli	F	40000	2	32154
51234	Test5	62	Chennai	M	60000	1	43214

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Statement 82



```
select* from employee where name='Test' and salary>50000
```

SSN	NAME	AGE	ADDRESS	SEX	SALARY	DNO	SUPERSSN
12345	Test	22	Mumbai	M	55000	1	54321

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Statement 83



```
select name, (salary+(salary/10))
from employee
where dno='1'
```

NAME	(SALARY+(SALARY/10))
Test	60500

Test5 66000

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Statement 84



```
select name, (salary+(salary/10)) as increment_Salary  
from employee  
where dno='1'
```

NAME	INCREMENT_SALARY
Test	60500
Test5	66000

Download CSV

2 rows selected.

Statement 85



```
select name, (salary+(salary/10)) as increment_Salary,dname  
from employee,department  
where dno='1'
```

ORA-00918: column ambiguously defined

Statement 86



```
select name, (salary+(salary/10)) as increment_Salary,dname  
from employee join department
```

The screenshot shows a sequence of three failed SQL statements followed by a successful one in the Oracle Live SQL interface.

Statement 87:

```
select e.name, (e.salary+(e.salary/10)) as increment_Salary,d.dname
  from employee as e join department as d
    on e.dno=d.dno
   where e.dno='1'
```

ORA-00933: SQL command not properly ended

Statement 88:

```
select e.name, (e.salary+(e.salary/10)) as increment_Salary,d.dname
  from employee as e join department as d
    on e.dno=d.dno
   where d.dno='1'
```

ORA-00933: SQL command not properly ended

Statement 89:

```
select e.name, (e.salary+(e.salary/10)) as increment_Salary,d.dname
  from employee e join department d
    on e.dno=d.dno
   where d.dno='1'
```

A data grid displays the results of the successful query:

NAME	INCREMENT_SALARY	DNAME
Test	60500	Comps
Test5	66000	Comps

```
where e.dno='2'
```

```
ORA-00933: SQL command not properly ended
```

Statement 101



```
select e.name, (e.salary+(e.salary/10)) as increment_Salary,d.dname  
from employee e join department d  
on e.dno=d.dno  
where d.dno='1'
```

NAME	INCREMENT_SALARY	DNAME
Test	60500	Comps
Test5	66000	Comps

Download CSV

2 rows selected.

Statement 102



```
select e.name, avg(e.salary) as increment_Salary,d.dname  
from employee e join department d  
on e.dno=d.dno  
where d.dno='1'
```

```
ORA-00937: not a single-group group function
```

Statement 103



```
select avg(salary)  
from employee
```

AVG(SALARY)

42500

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Statement 104

```
select avg(salary),min(salary),max(salary)
from employee
where dno='2'
```

AVG(SALARY)	MIN(SALARY)	MAX(SALARY)
42500	40000	45000

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Statement 105

```
select avg(salary),min(salary),max(salary),sum(salary)
from employee
where dno='2'
```

AVG(SALARY)	MIN(SALARY)	MAX(SALARY)	SUM(SALARY)
42500	40000	45000	85000

[Download CSV](#)Statement **106**

```
select avg(e.salary),min(e.salary),max(e.salary),sum(e.salary)
from employee e
where e.dno='2'
```

AVG(E.SALARY)	MIN(E.SALARY)	MAX(E.SALARY)	SUM(E.SALARY)
42500	40000	45000	85000

[Download CSV](#)Statement **107**

```
select avg(e.salary),min(e.salary),max(e.salary),sum(e.salary)
from employee e join department d
where e.dno='2'
```

ORA-00905: missing keyword

Statement **108**

```
select avg(e.salary),min(e.salary),max(e.salary),sum(e.salary)
from employee e join department d on e.dno=d.dno
where e.dno='2'
```

AVG(E.SALARY)	MIN(E.SALARY)	MAX(E.SALARY)	SUM(E.SALARY)
42500	40000	45000	85000

[Download CSV](#)

Statement 109



```
select avg(e.salary),min(e.salary),max(e.salary),sum(e.salary),d.dname  
from employee e join department d on e.dno=d.dno  
where e.dno='2'
```

ORA-00937: not a single-group group function

Statement 110



```
select avg(e.salary),min(e.salary),max(e.salary),sum(e.salary)  
from employee e join department d on e.dno=d.dno  
where e.dno='2'
```

AVG(E.SALARY)	MIN(E.SALARY)	MAX(E.SALARY)	SUM(E.SALARY)
42500	40000	45000	85000

[Download CSV](#)

Statement 111



```
select avg(salary) as Average_Salary,min(salary) as Minimum_Salary,max(salary) as Maxi  
from employee  
where dno='2'
```

AVERAGE_SALARY	MINIMUM_SALARY	MAXIMUM_SALARY	TOTAL_SALARY
----------------	----------------	----------------	--------------

42500

40000

45000

85000

Download CSV

Statement 112



```
select dno,avg(salary) as Average_Salary,min(salary) as Minimum_Salary,max(salary) as Maximum_Salary  
from employee  
where dno='2'
```

ORA-00937: not a single-group group function

Statement 113



```
select avg(salary) as Average_Salary,min(salary) as Minimum_Salary,max(salary) as Maximum_Salary  
from employee  
where dno='2'
```

AVERAGE_SALARY	MINIMUM_SALARY	MAXIMUM_SALARY	TOTAL_SALARY
42500	40000	45000	85000

Download CSV

Statement 114



```
select name  
from employee  
where exists(select dno from employee where dno='1')
```

NAME

Test

Test2

Test4

Test5

Download CSV

4 rows selected.

Statement 115



```
select e.name  
from employee e  
where exists(select dno from employee where e.dno='1')
```

NAME

Test

Test5

Download CSV

2 rows selected.

Statement 116



```
select d.dname,count(*)  
from employee e join department d
```

Statement 181



```
select dno, count(*)  
from employee  
group by(dno) having count(*)>1
```

DNO	COUNT(*)
2	2
1	2

Download CSV

2 rows selected.

Statement 182



```
select e.dno, count(*), d.dname  
from employee e join department d on e.dno=d.dno  
group by(e.dno) having count(*)>1
```

ORA-00979: not a GROUP BY expression

Statement 183



```
select e.dno, count(*), d.dname  
from employee e join department d on e.dno=d.dno  
group by(e.dno) having count(*)>1
```

ORA-00979: not a GROUP BY expression

Statement 184



```
select e.dno, count(*), d.dname  
from employee e join department d on d.dno=e.dno
```

ORA-00979: not a GROUP BY expression

Statement 198



```
select e.dno, count(*), d.dname  
from employee e join department d on d.dno=e.dno  
group by(e.dno) having count(*)>1
```

ORA-00979: not a GROUP BY expression

Statement 199



```
select e.name, (e.salary+(e.salary/10)) as increment_Salary, d.dname  
from employee e join department d  
on e.dno=d.dno  
where d.dno='1'
```

NAME	INCREMENT_SALARY	DNAME
Test	60500	Comps
Test5	66000	Comps

[Download CSV](#)

2 rows selected.

Statement 200



```
select e.dno, d.dname  
from employee e join department d
```

```
on e.dno=d.dno
```

DNO	DNAME
1	Comps
1	Comps

[Download CSV](#)

2 rows selected.

Statement 201



```
select e.name, e.dno,d.dname  
from employee e join department d  
on e.dno=d.dno  
where d.dno='1'
```

NAME	DNO	DNAME
Test	1	Comps
Test5	1	Comps

[Download CSV](#)

2 rows selected.

Statement 202



```
select e.dno,d.dname  
from employee e join department d
```

on e.dno=d.dno

DNO	DNAME
1	Comps
1	Comps

[Download CSV](#)

2 rows selected.

Statement 203

```
select e.dno,d.dname
from employee e join department d
on e.dno=d.dno
having count(e.dno)>1
```

ORA-00937: not a single-group group function

Statement 204

```
select e.dno,d.dname
from employee e join department d
on e.dno=d.dno
having count(*)>1
```

ORA-00937: not a single-group group function

Statement 205

```
select e.dno,d.dname
from employee e join department d
```

ORA-00933: SQL command not properly ended

Statement **258**

```
create view staff as  
select name,address,dno  
from employee  
where check constraint staff_cnst
```

ORA-00936: missing expression

Statement **259**

```
create view staff as  
select name,address,dno  
from employee  
with check option constraint staff_cnst
```

View created.

Statement **260**

```
select* from staff
```

NAME	ADDRESS	DNO
Test	Mumbai	1
Test2	Bangalore	2
Test4	Dehli	2
Test5	Chennai	1

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Statement 261

```
drop view staff
```

View dropped.

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