CYCLE-1

1. SQL> create table EMP(empno NUMBER(20),ename VARCHAR2(25),job VARCHAR2(12),salary NUMBER(10,2),commision NUMBER(7,2),depno NUMBER(2));

Table created.

SQL> insert into emp(empno,ename,job,salary,commission,deptno)values(7369,'smith','clerk',2000,800,20);

insert into emp(empno,ename,job,salary,commission,deptno)values(7369,'smith','clerk',2000,800,20)

\*

ERROR at line 1:

ORA-00904: "DEPTNO": invalid identifier

SQL> desc

Usage: DESCRIBE [schema.]object[@db\_link]

2. SQL> desc EMP

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NUMBER(20)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

COMMISION NUMBER(7,2)

DEPNO NUMBER(2)

SQL> insert into emp(empno,ename,job,salary,commission,depno)values(7369,'smith','clerk',2000,800,20)

2

2. SQL> insert into emp(empno,ename,job,salary,commision,depno)values(7369,'smith','clerk',2000,800,20);

1 row created.

SQL> SQL> insert into emp(empno,ename,job,salary,commision,depno)values(7499,'allen','salesman',1600,300,30);

SP2-0734: unknown command beginning "SQL> inser..." - rest of line ignored.

SQL> insert into emp(empno,ename,job,salary,commision,depno)values(7499,'allen','salesman',1600,300,30);

1 row created.

SQL> insert into emp(empno,ename,job,salary,commision,depno)values(7521,'ward','salesman',1250,500,30);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7566,'jones','manager',2975,20);

1 row created.

SQL> insert into emp(empno,ename,job,salary,commision,depno)values(7654,'martin','salesman',1250,1400,30);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7698,'blake','manager',2850,30);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7782,'clark','manager',2450,10);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7788,'scott','analyst',3000,20);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7839,'king','president',5000,10);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7844,'turner','salesman',1500,30);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7876,'adams','clerk',1100,20);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7900,'james','null',950,30);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7902,'ford','analyst',3000,20);

1 row created.

SQL> insert into emp(empno,ename,job,salary,depno)values(7934,'miller','clerk',1300,10);

1 row created.

4. SQL> select \* from EMP;

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7369 smith clerk 2000 800

20

7499 allen salesman 1600 300

30

7521 ward salesman 1250 500

30

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7566 jones manager 2975

20

7654 martin salesman 1250 1400

30

7698 blake manager 2850

30

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7782 clark manager 2450

10

7788 scott analyst 3000

20

7839 king president 5000

10

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7844 turner salesman 1500

30

7876 adams clerk 1100

20

7900 james null 950

30

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7902 ford analyst 3000

20

7934 miller clerk 1300

10

14 rows selected.

5. SQL> update emp set job='CLERK' where job='null';

1 row updated.

SQL> select \* from EMP;

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7369 smith clerk 2000 800

20

7499 allen salesman 1600 300

30

7521 ward salesman 1250 500

30

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7566 jones manager 2975

20

7654 martin salesman 1250 1400

30

7698 blake manager 2850

30

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7782 clark manager 2450

10

7788 scott analyst 3000

20

7839 king president 5000

10

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7844 turner salesman 1500

30

7876 adams clerk 1100

20

7900 james CLERK 950

30

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO

----------

7902 ford analyst 3000

20

7934 miller clerk 1300

10

14 rows selected.

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NUMBER(20)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

COMMISION NUMBER(7,2)

DEPNO NUMBER(2)

6. SQL> Alter table emp add date\_join date;

Table altered.

.SQL> update emp set date\_join='17-DEC-80' where empno=7369 ;

1 row updated.

SQL> update emp set date\_join='20-FEB-81' where empno=7499 ;

1 row updated.

SQL> update emp set date\_join='22-FEB-81' where empno=7521;

1 row updated.

SQL> update emp set date\_join='02-APR-81' where empno=7566 ;

1 row updated.

SQL> update emp set date\_join='28-SEP-81' where empno=7654 ;

1 row updated.

SQL> update emp set date\_join='01-MAY-81' where empno=7698 ;

1 row updated.

SQL> update emp set date\_join='09-JUN-81' where empno=7782;

1 row updated.

SQL> update emp set date\_join='19-APR-87' where empno=7788;

1 row updated.

SQL> update emp set date\_join='17-NOV-81' where empno=7839 ;

1 row updated.

SQL> update emp set date\_join='08-SEP-81' where empno=7844 ;

1 row updated.

SQL> update emp set date\_join='23-MAY-87' where empno=7876;

1 row updated.

SQL> update emp set date\_join='03-DEC-81' where empno=7900;

1 row updated.

SQL> update emp set date\_join='03-DEC-81' where empno=7902;

1 row updated.

SQL> update emp set date\_join='23-JAN-82' where empno=7934;

1 row updated.

7. SQL> select \* from EMP;

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7369 smith clerk 2000 800

20 17-DEC-80

7499 allen salesman 1600 300

30 20-FEB-81

7521 ward salesman 1250 500

30 22-FEB-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7566 jones manager 2975

20 02-APR-81

7654 martin salesman 1250 1400

30 28-SEP-81

7698 blake manager 2850

30 01-MAY-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7782 clark manager 2450

10 09-JUN-81

7788 scott analyst 3000

20 19-APR-87

7839 king president 5000

10 17-NOV-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7844 turner salesman 1500

30 08-SEP-81

7876 adams clerk 1100

20 23-MAY-87

7900 james CLERK 950

30 03-DEC-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7902 ford analyst 3000

20 03-DEC-81

7934 miller clerk 1300

10 23-JAN-82

14 rows selected.

8. SQL>SQL> select distinct job from emp;

JOB

------------

salesman

CLERK

clerk

president

manager

analyst

7 rows selected.

9. SQL> select ename from emp where depno between 20 and 30;

ENAME

-------------------------

smith

allen

ward

jones

martin

blake

scott

turner

adams

james

ford

11 rows selected.

SQL> select ename,sum(salary+commision) from emp group by ename;

ENAME SUM(SALARY+COMMISION)

------------------------- ---------------------

allen 1900

king

james

scott

miller

smith 2800

ward 1750

jones

turner

adams

ENAME SUM(SALARY+COMMISION)

------------------------- ---------------------

ford

martin 2650

blake

clark

15 rows selected.

SQL> select ename,sum(salary+commision) from emp group by ename;

ENAME SUM(SALARY+COMMISION)

------------------------- ---------------------

allen 1900

king

james

scott

miller

smith 2800

ward 1750

jones

turner

adams

ENAME SUM(SALARY+COMMISION)

------------------------- ---------------------

ford

martin 2650

blake

clark

15 rows selected.

10. SQL> select ename,(salary+commision) as total\_salary from emp;

ENAME TOTAL\_SALARY

------------------------- ------------

smith 2800

allen 1900

ward 1750

jones

martin 2650

blake

clark

scott

king

turner

adams

ENAME TOTAL\_SALARY

------------------------- ------------

james

ford

miller

20 rows selected.

11. SQL> select ename,(salary\*12) as annual\_salary from emp;

ENAME ANNUAL\_SALARY

------------------------- -------------

smith 24000

allen 19200

ward 15000

jones 35700

martin 15000

blake 34200

clark 29400

scott 36000

king 60000

turner 18000

adams 13200

ENAME ANNUAL\_SALARY

------------------------- -------------

james 11400

ford 36000

miller 15600

20 rows selected.

12. SQL> select \* from emp where date\_join='03-DEC-81';

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7900 james CLERK 950

30 03-DEC-81

7902 ford analyst 3000

20 03-DEC-81

13. SQL> select ename ,salary as total\_salary from emp where ename='miller';

ENAME TOTAL\_SALARY

------------------------- ------------

miller 1300

14. SQL> delete from emp where ename='miller';

1 row deleted.

SQL> select \*from EMP;

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7369 smith clerk 2000 800

20 17-DEC-80

7499 allen salesman 1600 300

30 20-FEB-81

7521 ward salesman 1250 500

30 22-FEB-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7566 jones manager 2975

20 02-APR-81

7654 martin salesman 1250 1400

30 28-SEP-81

7698 blake manager 2850

30 01-MAY-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7782 clark manager 2450

10 09-JUN-81

7788 scott analyst 3000

20 19-APR-87

7839 king president 5000

10 17-NOV-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7844 turner salesman 1500

30 08-SEP-81

7876 adams clerk 1100

20 23-MAY-87

7900 james CLERK 950

30 03-DEC-81

EMPNO ENAME JOB SALARY COMMISION

---------- ------------------------- ------------ ---------- ----------

DEPNO DATE\_JOIN

---------- ---------

7902 ford analyst 3000

20 03-DEC-81

15rows selected.

15. SQL> select ename,depno from emp;

ENAME DEPNO

------------------------- ----------

smith 20

allen 30

ward 30

jones 20

martin 30

blake 30

clark 10

scott 20

king 10

turner 30

adams 20

ENAME DEPNO

------------------------- ----------

james 30

ford 20

19 rows selected.

16. SQL> update emp set salary=salary+commision;

19 rows updated.

SQL> select salary from emp;

SALARY

----------

2800

1900

1750

2650

SALARY

----------

19 rows selected.

SQL> alter table emp drop salary;

alter table emp drop salary

\*

ERROR at line 1:

ORA-00905: missing keyword

SQL> alter table emp drop column commision;

Table altered.

SQL> describe;

Usage: DESCRIBE [schema.]object[@db\_link]

SQL> describe emp;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NUMBER(20)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

DEPNO NUMBER(2)

DATE\_JOIN

18. SQL> select ename as name,empno as emp\_id from emp;

NAME EMP\_ID

------------------------- ----------

smith 7369

allen 7499

ward 7521

jones 7566

martin 7654

blake 7698

clark 7782

scott 7788

king 7839

turner 7844

adams 7876

NAME EMP\_ID

------------------------- ----------

james 7900

ford 7902

cycle 2

SQL> create table SAILORS(sid number(4),sname varchar(20),rating number(5),age number(10));

Table created.

SQL> desc SAILORS;

Name Null? Type

----------------------------------------- -------- ----------------------------

SID NUMBER(4)

SNAME VARCHAR2(20)

RATING NUMBER(5)

AGE NUMBER(10)

SQL> insert into SAILORS(sid,sname,rating,age)values(22,'Dustin',7,45);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(29,'Brutas',1,33);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(31,'Lubber',8,55);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(32,'Andy',8,25);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(58,'Rusty',10,35);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(64,'Horatio',7,35);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(71,'Zorba',10,16);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(64,'Horatio',9,35);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(85,'Art',3,26);

1 row created.

SQL> insert into SAILORS(sid,sname,rating,age)values(95,'Bob',3,64);

1 row created.

SQL> select \* from SAILORS;

SID SNAME RATING AGE

---------- -------------------- ---------- ----------

22 Dustin 7 45

29 Brutas 1 33

31 Lubber 8 55

32 Andy 8 25

58 Rusty 10 35

64 Horatio 7 35

71 Zorba 10 16

64 Horatio 9 35

85 Art 3 26

95 Bob 3 64

10 rows selected.

SQL> create table BOAT(bid number(4),bname varchar(20),color varchar(10));

Table created.

SQL> desc BOAT;

Name Null? Type

----------------------------------------- -------- ----------------------------

BID NUMBER(4)

BNAME VARCHAR2(20)

COLOR VARCHAR2(10)

SQL> insert into BOAT(bid,bname,color)values(101,'interlake','Blue');

1 row created.

SQL> insert into BOAT(bid,bname,color)values(102,'interlake','Red');

1 row created.

SQL> insert into BOAT(bid,bname,color)values(103,'clipper','Green');

1 row created.

SQL> insert into BOAT(bid,bname,color)values(104,'marine','Red');

1 row created.

SQL> select \* from BOAT;

BID BNAME COLOR

---------- -------------------- ----------

101 interlake Blue

102 interlake Red

103 clipper Green

104 marine Red

SQL> create table RESERVES(sid number(4),bid number(10),day date);

Table created.

SQL> desc RESERVES;

Name Null? Type

----------------------------------------- -------- ----------------------------

SID NUMBER(4)

BID NUMBER(10)

DAY DATE

SQL> insert into RESERVES(sid,bid,day)values(22,101,'10-Oct-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(22,102,'10-Oct-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(22,103,'10-aug-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(22,104,'10-jul-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(31,102,'11-oct-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(31,103,'11-jun-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(31,104,'11-dec-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(64,101,'9-may-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(64,102,'9-aug-98');

1 row created.

SQL> insert into RESERVES(sid,bid,day)values(74,103,'9-aug-98');

1 row created.

SQL> select \* from RESERVES;

SID BID DAY

---------- ---------- ---------

22 101 10-OCT-98

22 102 10-OCT-98

22 103 10-AUG-98

22 104 10-JUL-98

31 102 11-OCT-98

31 103 11-JUN-98

31 104 11-DEC-98

64 101 09-MAY-98

64 102 09-AUG-98

74 103 09-AUG-98

10 rows selected.