1. hw5trig.sql

```
[cssc0030@edoras ~]$ clear
[cssc0030@edoras ~]$ vi hw5trig.sql
DROP TABLE newhires purge;
CREATE TABLE newhires as select empno, hiredate, ename from empbb02;

CREATE OR REPLACE TRIGGER hw5trig
AFTER INSERT ON empbb02
FOR EACH ROW
BEGIN
      INSERT INTO newhires (empno, hiredate, ename)
      VALUES( :new.empno, :new.hiredate, :new.ename);
END;
/
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

~
~
~
~
~
"hw5trig.sql" 11L, 277C   9,2-9   All

[cssc0030@edoras ~]$ clear
[cssc0030@edoras ~]$ sqlplus st30/cs514@cs514

SQL*Plus: Release 11.2.0.4.0 Production on Thu Aug 10 14:41:41 2017

Copyright (c) 1982, 2013, Oracle. All rights reserved.

ERROR:
ORA-28002: the password will expire within 104 days

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Data Mining
and Real Application Testing options

SQL> start hw5trig.sql

Table dropped.

Table created.

Trigger created.

SQL> insert into empbb02(empno,hiredate,ename) values('121', '02-january-1951', 'grayman');

1 row created.

SQL> select * from newhires;

EMPNO HIREDATE ENAME
----- --------- ----------------

```
120   01-JAN-50 gregman
712   01-JAN-98 rickey
735   10-JAN-98 lasorda
707   11-JAN-98 bochy
798   12-JAN-98 berra
782   01-FEB-98 musial
763   11-MAR-98 gehrig
777   05-MAY-98 minoso
721   28-FEB-98 sandberg
788   10-JAN-99 cey
720   05-JAN-99 williams

EMPNO HIREDATE  ENAME
----- --------- ----------------
755   08-NOV-98 johnson
744   18-OCT-99 brown
730   01-JAN-98 mays
799   10-MAR-00 mungo
766   16-OCT-01 rodriguez
121   02-JAN-51 grayman

17 rows selected.

SQL>
```

---

2. Trace of rain

```
[cssc0030@edoras ~]$ clear
[cssc0030@edoras ~]$ sqlplus st30/cs514@cs514

SQL*Plus: Release 11.2.0.4.0 Production on Thu Aug 10 13:39:41 2017

Copyright (c) 1982, 2013, Oracle.  All rights reserved.

ERROR:
ORA-28002: the password will expire within 104 days


Connected to:
```

Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Data Mining
and Real Application Testing options

SQL> set pages 500
SQL> select year, aug from rainfall where aug <= .04;

```
     YEAR        AUG
---------- ----------
      1850          0
      1851          0
      1855        .04
      1856          0
      1857        .02
      1858        .04
      1859          0
      1860          0
      1861          0
      1862          0
      1863          0
      1864          0
      1865          0
      1868          0
      1869          0
      1871          0
      1874          0
      1877          0
      1878          0
      1879          0
      1881        .01
      1882          0
      1883          0
      1884          0
      1886          0
      1887          0
      1888          0
      1889        .04
      1890          0
      1891          0
      1893          0
      1894        .04
      1895          0
      1897          0
```

1898	0
1900	0
1901	0
1902	0
1903	0
1904	0
1905	0
1907	0
1909	0
1911	0
1913	.02
1914	0
1915	0
1916	.01
1917	0
1919	.01
1920	.01
1921	0
1922	0
1923	0
1924	0
1925	.01
1927	.01
1928	.03
1929	0
1930	0
1932	0
1933	.01
1934	.02
1937	0
1938	.03
1939	0
1940	0
1941	.03
1942	0
1943	0
1944	0
1946	0
1947	0
1948	0
1949	0
1950	0
1952	0

1953	0
1954	0
1956	0
1957	0
1958	0
1959	0
1960	0
1961	.04
1962	0
1963	0
1964	0
1965	0
1966	0
1968	0
1969	.01
1970	0
1971	.03
1972	.02
1973	0
1974	0
1975	0
1976	.01
1978	0
1979	.01
1980	0
1981	0
1982	0
1985	0
1986	0
1987	.01
1988	0
1989	0
1990	.01
1991	.01
1993	0
1994	.01
1995	0
1996	0
1997	0
1998	0
1999	0
2000	.01
2001	0

```
2002      0
2003      0
2004      0
2005      0
2006     .01
2007      0
2008      0
2009      0
2010      0
2011      0
2012      0
2013      0
2015     .01
2016      0
2017      0
```

135 rows selected.

SQL>

---

3. xtrabases.sql

```
[cssc0030@edoras ~]$ clear
[cssc0030@edoras ~]$ vi xtrabases.sql
DROP TABLE stats PURGE;
DROP TYPE team_type;
DROP TYPE xtrabases;
CREATE TYPE xtrabases AS Object(
    num_doubles NUMBER,
    num_triples NUMBER,
    num_homeruns NUMBER,
    member function dingers RETURN NUMBER
    );
/
CREATE TYPE team_type AS
    VARRAY(10) OF VARCHAR2(24);
/

CREATE TABLE stats (
    fname VARCHAR2(16),
```

```
    lname VARCHAR2(16),
    xtrabs xtrabases,
    team team_type
    );
INSERT INTO stats VALUES('John', 'Snoltz', xtrabases(null, null, 288), team_type('Atlanta
Braves'));
INSERT INTO stats VALUES('Jackie', 'Robinson', xtrabases(null, null, 137),
team_type('Brooklyn Dodgers'));
INSERT INTO stats VALUES('Cal', 'Ripkin', xtrabases(null,null, 131), team_type('Baltimore
Orioles'));
INSERT INTO stats VALUES('Mike', 'Piazza', xtrabases(null,null,427), team_type('New York
Mets'));
INSERT INTO stats VALUES('Willie', 'Mays', xtrabases(null, null,660), team_type('San
Francisco Giants'));
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~

12,2-9      All
```

ERROR:
ORA-28002: the password will expire within 99 days

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Data Mining
and Real Application Testing options

SQL> start xtrabases

Table dropped.

Type dropped.

Type dropped.

Type created.

Type created.

Table created.

1 row created.

1 row created.

1 row created.

1 row created.

1 row created.

```
SQL> select * from stats;

FNAME           LNAME
--------------- ---------------
XTRABS(NUM_DOUBLES, NUM_TRIPLES, NUM_HOMERUNS)
-----------------------------------------------------------------------
TEAM
-----------------------------------------------------------------------
John            Snoltz
XTRABASES(NULL, NULL, 288)
TEAM_TYPE('Atlanta Braves')

Jackie          Robinson
XTRABASES(NULL, NULL, 137)
TEAM_TYPE('Brooklyn Dodgers')

FNAME           LNAME
--------------- ---------------
XTRABS(NUM_DOUBLES, NUM_TRIPLES, NUM_HOMERUNS)
-----------------------------------------------------------------------
TEAM
-----------------------------------------------------------------------

Cal             Ripkin
XTRABASES(NULL, NULL, 131)
TEAM_TYPE('Baltimore Orioles')

Mike            Piazza
XTRABASES(NULL, NULL, 427)

FNAME           LNAME
--------------- ---------------
XTRABS(NUM_DOUBLES, NUM_TRIPLES, NUM_HOMERUNS)
-----------------------------------------------------------------------
TEAM
-----------------------------------------------------------------------
TEAM_TYPE('New York Mets')

Willie          Mays
XTRABASES(NULL, NULL, 660)
TEAM_TYPE('San Francisco Giants')
SQL>
```

```
[cssc0030@edoras ~]$ clear
[cssc0030@edoras ~]$ vi dingersproc.sql
CREATE OR REPLACE TYPE BODY xtrabases
  AS MEMBER FUNCTION dingers RETURN NUMBER
  IS
  BEGIN
      return self.num_homeruns;
  END;
END;
/
show errors
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"dingersproc.sql" 9L, 164C
5,2-9        All
```

```
[cssc0030@edoras ~]$ clear
[cssc0030@edoras ~]$ sqlplus st30/cs514@cs514

SQL*Plus: Release 11.2.0.4.0 Production on Tue Aug 15 13:04:38 2017

Copyright (c) 1982, 2013, Oracle.  All rights reserved.

ERROR:
ORA-28002: the password will expire within 99 days



Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Data Mining
and Real Application Testing options

SQL> start dingersproc

Type body created.

No errors.
SQL>
```