**CREATING TABLE SAILORS**

DESCRIBE SAILORS;

Name Null? Type

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

S\_ID NOT NULL NUMBER(2)

S\_NAME VARCHAR2(25)

RATING NUMBER(2)

AGE NUMBER(2)

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(22,'Dustine',7,45);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(29,'Brutas',1,33);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(31,'Lubber',8,55);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(32,'Andy',8,25);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(58,'Rusty',10,35);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(64,'Horatio',7,35);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(71,'Zorba',10,16);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(74,Horatio,9,35);

INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(74,Horatio,9,35)

\*

ERROR at line 1:

ORA-00984: column not allowed here

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(74,'Horatio',9,35);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(85,'Art',3,26);

1 row created.

SQL> INSERT INTO SAILORS(s\_id,s\_name,rating,age)values(95,'Bob',3,64);

1 row created.

SQL> SELECT \* FROM SAILORS;

S\_ID S\_NAME RATING AGE

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

22 Dustine 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

74 Horatio 9 35

85 Art 3 26

95 Bob 3 64

10 rows selected.

SQL>

**CREATING TABLE BOATS**

SQL> CREATE TABLE BOATS(bid INT NOT NULL PRIMARY KEY,bname VARCHAR(25),color VARCHAR(25));

Table created.

SQL> INSERT INTO BOATS(bid,bname,color)values(101,'Interlake','Blue');

1 row created.

SQL> INSERT INTO BOATS(bid,bname,color)values(102,'Interlake','Red');

1 row created.

SQL> INSERT INTO BOATS(bid,bname,color)values(103,'Clipper','Green');

1 row created.

SQL> INSERT INTO BOATS(bid,bname,color)values(104,'Marine','Red');

1 row created.

SQL> SELECT \* FROM BOATS;

BID BNAME COLOR

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

101 Interlake Blue

102 Interlake Red

103 Clipper Green

104 Marine Red

SQL>

**CREATING TABLE RESERVES**

SQL> CREATE TABLE RESERVES(s\_id number(3)references SAILORS(s\_id),bid NUMBER(3)references BOATS(bid),day DATE);

Table created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(22,101,'22-oct-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(22,102,'10-oct-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(22,103,'10-oct-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(22,104,'10-jul-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(31,102,'11-oct-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(31,103,'11-jun-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(31,104,'11-dec-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(64,101,'09-may-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(64,102,'09-aug-98');

1 row created.

SQL> INSERT INTO RESERVES(s\_id,bid,day)values(74,103,'09-aug-98');

1 row created.

SQL> SELECT \* FROM RESERVES;

S\_ID BID DAY

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

22 101 22-OCT-98

22 102 10-OCT-98

22 103 10-OCT-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.

SQL>

1.Find the names and ages of all sailors

QL> SELECT s\_name,age FROM SAILORS;

S\_NAME AGE

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

Dustine 45

Brutas 33

Lubber 55

Andy 25

Rusty 35

Horatio 35

Zorba 16

Horatio 35

Art 26

Bob 64

1. ows selected.

2.SQL>Find all information of sailors who have reserved boat number 101.

QL> SELECT \* FROM SAILORS S,RESERVES R WHERE S.s\_id=R.s\_id AND R.bid=101;

S\_ID S\_NAME RATING AGE S\_ID BID

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

DAY

---------

22 Dustine 7 45 22 101

22-OCT-98

64 Horatio 7 35 64 101

09-MAY-98

SQL>

3.Find all sailors with rating above 7

SQL> SELECT \* FROM SAILORS WHERE rating>7;

S\_ID S\_NAME RATING AGE

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

31 Lubber 8 55

32 Andy 8 25

58 Rusty 10 35

71 Zorba 10 16

1. oratio 9 35

4.Find the names of sailors who have reserved boat no 103

SQL> SELECT S.s\_name FROM SAILORS S,RESERVES R WHERE S.s\_id=R.s\_id AND R.bid=103;

S\_NAME

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

Dustine

Lubber

Horatio

SQL>

**5. Find the names of sailors who have reserved a red boat, and list in**

**the order of age**.

SQL> select S.s\_name,S.age from SAILORS S,RESERVES R,BOATS B where S.s\_id=R.s\_id and R.bid=B.bid and B.color='Red' order by S.age;

S\_NAME AGE

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

Horatio 35

Dustine 45

Dustine 45

Lubber 55

Lubber 55

**6. Find the names of sailors who have reserved either a red or green**

**boat**

SQL> select S.s\_name from SAILORS S,RESERVES R,BOATS B where S.s\_id=R.s\_id and R.bid=B.bid and (B.color='Red' or B.color='Green');

S\_NAME

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

Dustine

Dustine

Dustine

Lubber

Lubber

Lubber

Horatio

Horatio

8 rows selected.

**7. Find the colors of boats reserved by “Lubber”.**

SQL> select B.color from SAILORS S,RESERVES R,BOATS B where S.s\_id=R.s\_id and R.bid=B.bid and S.s\_name='Lubber';

COLOR

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

Red

Red

Green

**8.Find the names of sailors who have reserved both red and green**

**boats**

SQL> select S.s\_name from SAILORS S,BOATS B,RESERVES R where S.s\_id=R.s\_id and R.bid=B.bid and B.color='Red' intersect select S.s\_name from SAILORS S,BOATS B,RESERVES R where S.s\_id=R.s\_id and R.bid=B.bid and b.color='Green';

S\_NAME

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

Dustine

Horatio

Lubber

SQL>

SQL> select S.s\_name from SAILORS S,RESERVES R where S.s\_id=R.s\_id;

S\_NAME

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

Dustine

Dustine

Dustine

Dustine

Lubber

Lubber

Lubber

Horatio

Horatio

Horatio

10 rows selected.

SQL> select distinct S.s\_id,S.s\_name from SAILORS S,RESERVES R1,RESERVES R2 where S.s\_id=R1.s\_id and S.s\_id=R2.s\_id and R1.day=R2.day and R1.bid<>R2.bid;

S\_ID S\_NAME

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

22 Dustine

SQL>

11

SQL> select S.s\_name,S.age from SAILORS S where S.age<=all(select age from SAILORS);

S\_NAME AGE

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

Zorba 16

SQL>

12.

SQL> select S.s\_name,S.rating from SAILORS S where S.rating>any(select S2.rating from SAILORS S2 where S2.s\_name='Horatio');

S\_NAME RATING

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

Rusty 10

Zorba 10

13

SQL> CREATE TABLE EMPLOY(SSN NOT NULL NUMBER2(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38));

CREATE TABLE EMPLOY(SSN NOT NULL NUMBER2(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38))

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> CREATE TABLE EMPLOY(SSN VARCHAR(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38));

Table created.

SQL> CREATE VIEW sales\_staff AS SELECT FNAME,SSN FROM EMPLOY;

View created.

SQL> INSERT INTO EMPLOY(SSN,FNAME,LNAME,ADDRESS,SEX,SALARY)VALUES('a','siva','priya','pezhanal','F',2000);

1 row created.

SQL> SELECT \* FROM sales\_staff;

FNAME SSN

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

siva a

SQL>

SQL> CREATE TABLE EMPLOY(SSN VARCHAR(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38));

Table created.

SQL> CREATE VIEW sales\_staff AS SELECT FNAME,SSN FROM EMPLOY;

View created.

SQL> INSERT INTO EMPLOY(SSN,FNAME,LNAME,ADDRESS,SEX,SALARY)VALUES('a','siva','priya','pezhanal','F',2000);

1 row created.

SQL> SELECT \* FROM sales\_staff;

FNAME SSN

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

siva a

SQL> SET SERVEROUTPUT ON;

SQL> CREATE OR REPLACE PROCEDURE welcome\_msg (p\_name IN VARCHAR2)

2 IS

3 BEGIN

4 dbms\_output.put\_line ('welcome '|| p\_name);

5 END;

6 /

Procedure created.

SQL> EXEC welcome\_msg ('siva21');

welcome siva21

PL/SQL procedure successfully completed.

SQL> CREATE OR REPLACE PROCEDURE welcome\_msg (p\_name IN VARCHAR2, salary out number)

2 IS

3 BEGIN

4 salary:=10000;

5 dbms\_output.put\_line ('welcome '|| p\_name);

6 END;

7 /

Procedure created.

SQL> var sal number;

SQL> EXEC welcome\_msg ('siva21',:sal);

welcome siva21

PL/SQL procedure successfully completed.

SQL> print sal;

SAL

----------

10000

SQL> CREATE OR REPLACE FUNCTION welcome\_msg\_func (p\_name IN VARCHAR2) RETURN VARCHAR2

2 IS

3 BEGIN

4 RETURN ('welcome '|| p\_name);

5 END;

6 /

Function created.

SQL> SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

2 IS

3 BEGIN

4 sal:=10000;

SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

2 IS

3 BEGIN

4 salary:=10000;

SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> CREATE OR REPLACE PROCEDURE welcome\_msg (p\_name IN VARCHAR2, salary out number)

2 IS

3 INSERT INTO EMPLOY(SSN,FNAME,LNAME,ADDRESS,SEX,SALARY)VALUES('a','siva','priya','pezhanal','F',2000);

4 end;

5 /

Warning: Procedure created with compilation errors.

SQL> DECLARE

2 lv\_msg VARCHAR2(250);

3 BEGIN

4 lv\_msg := welcome\_msg\_func ('siva21');

5 dbms\_output.put\_line(lv\_msg);

6 END;

7 /

welcome siva21

PL/SQL procedure successfully completed.

SQL> SELECT welcome\_msg\_func('siva21') FROM DUAL;

WELCOME\_MSG\_FUNC('SIVA21')

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

welcome siva21

SQL> CREATE OR REPLACE FUNCTION welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

2 IS

3 BEGIN

4 sal:=10000;

5 RETURN ('welcome '|| p\_name);

6 END;

7 /

Function created.

SQL> DECLARE

2 lv\_msg VARCHAR2(250);

3 sal number;

4 BEGIN

5 lv\_msg:=welcome\_msg\_func ('siva21',sal);

6 dbms\_output.put\_line(lv\_msg|| ' : '||sal);

7 END;

8 /

welcome siva21 : 10000

PL/SQL procedure successfully completed.

SQL>

SQL> DESCRIBE EMPLOYEE

Name Null? Type

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

EMP\_NO NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

DEPTNO NUMBER(2)

DATE\_JOIN DATE

SQL> CREATE VIEW S

2 END;

END

\*

ERROR at line 2:

ORA-00905: missing keyword

SQL> CREATE TABLE EMPLOY(SSN NOT NULL VARCHAR2(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38));

CREATE TABLE EMPLOY(SSN NOT NULL VARCHAR2(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38))

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> CREATE TABLE EMPLOY(SSN NOT NULL NUMBER2(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38));

CREATE TABLE EMPLOY(SSN NOT NULL NUMBER2(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38))

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> CREATE TABLE EMPLOY(SSN VARCHAR(20),FNAME VARCHAR2(20),LNAME VARCHAR2(20),ADDRESS VARCHAR2(20),SEX CHAR(1),SALARY NUMBER(38));

Table created.

SQL> CREATE VIEW sales\_staff AS SELECT FNAME,SSN FROM EMPLOY;

View created.

SQL> INSERT INTO EMPLOY(SSN,FNAME,LNAME,ADDRESS,SEX,SALARY)VALUES('a','siva','priya','pezhanal','F',2000);

1 row created.

SQL> SELECT \* FROM sales\_staff;

FNAME SSN

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

siva a

SQL> SET SERVEROUTPUT ON;

SQL> CREATE OR REPLACE PROCEDURE welcome\_msg (p\_name IN VARCHAR2)

2 IS

3 BEGIN

4 dbms\_output.put\_line ('welcome '|| p\_name);

5 END;

6 /

Procedure created.

SQL> EXEC welcome\_msg ('siva21');

welcome siva21

PL/SQL procedure successfully completed.

SQL> CREATE OR REPLACE PROCEDURE welcome\_msg (p\_name IN VARCHAR2, salary out number)

2 IS

3 BEGIN

4 salary:=10000;

5 dbms\_output.put\_line ('welcome '|| p\_name);

6 END;

7 /

Procedure created.

SQL> var sal number;

SQL> EXEC welcome\_msg ('siva21',:sal);

welcome siva21

PL/SQL procedure successfully completed.

SQL> print sal;

SAL

----------

10000

SQL> CREATE OR REPLACE FUNCTION welcome\_msg\_func (p\_name IN VARCHAR2) RETURN VARCHAR2

2 IS

3 BEGIN

4 RETURN ('welcome '|| p\_name);

5 END;

6 /

Function created.

SQL> SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

2 IS

3 BEGIN

4 sal:=10000;

SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

\*

ERROR at line 1:

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SQL> SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

2 IS

3 BEGIN

4 salary:=10000;

SELECT welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> CREATE OR REPLACE PROCEDURE welcome\_msg (p\_name IN VARCHAR2, salary out number)

2 IS

3 INSERT INTO EMPLOY(SSN,FNAME,LNAME,ADDRESS,SEX,SALARY)VALUES('a','siva','priya','pezhanal','F',2000);

4 end;

5 /

Warning: Procedure created with compilation errors.

SQL> DECLARE

2 lv\_msg VARCHAR2(250);

3 BEGIN

4 lv\_msg := welcome\_msg\_func ('siva21');

5 dbms\_output.put\_line(lv\_msg);

6 END;

7 /

welcome siva21

PL/SQL procedure successfully completed.

SQL> SELECT welcome\_msg\_func('siva21') FROM DUAL;

WELCOME\_MSG\_FUNC('SIVA21')

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

welcome siva21

SQL> CREATE OR REPLACE FUNCTION welcome\_msg\_func (p\_name IN VARCHAR2,sal out number) RETURN VARCHAR2

2 IS

3 BEGIN

4 sal:=10000;

5 RETURN ('welcome '|| p\_name);

6 END;

7 /

Function created.

SQL> DECLARE

2 lv\_msg VARCHAR2(250);

3 sal number;

4 BEGIN

5 lv\_msg:=welcome\_msg\_func ('siva21',sal);

6 dbms\_output.put\_line(lv\_msg|| ' : '||sal);

7 END;

8 /

welcome siva21 : 10000

PL/SQL procedure successfully completed.

SQL> create table stud\_file(sid number, name varchar(20),m1 number,m2 number);

Table created.

SQL> insert into stud\_file values(1,'anu',40,45);

1 row created.

SQL> insert into stud\_file values(2,'binu',48,45);

1 row created.

SQL> insert into stud\_file values(2,'cini',30,45);

1 row created.

SQL> insert into stud\_file values(2,'dini',30,25);

1 row created.

SQL> select \* from stud\_file;

SID NAME M1 M2

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

1 anu 40 45

2 binu 48 45

2 cini 30 45

2 dini 30 25

SQL> declare

2 id constant number :=1;

3 sname stud\_file.name%type;

4 mark1 stud\_file.m1%type;

5 mark2 stud\_file.m2%type;

6 total number:=0;

7 begin

8 select name,m1,m2 into sname,mark1,mark2 from stud\_file where sid=id;

9 total:=mark1+mark2;

10 dbms\_output.put\_line('total marks of student '||sname||' with id '||id||' is: '||total);

11 end;

12 /

total marks of student anu with id 1 is: 85

PL/SQL procedure successfully completed.

SQL> declare

2 cursor stud\_cursor is select \* from stud\_file;

3 stud\_rec stud\_cursor%rowtype;

4 total number:=0;

5 begin

6 open stud\_cursor;

7 loop

8 fetch stud\_cursor into stud\_rec;

9 exit when stud\_cursor%notfound;

10 total:=stud\_rec.m1+stud\_rec.m2;

11 dbms\_output.put\_line('total marks of student '||stud\_rec.name||' is: '||total);

12 end loop;

13 end;

14 /

total marks of student anu is: 85

total marks of student binu is: 93

total marks of student cini is: 75

total marks of student dini is: 55

PL/SQL procedure successfully completed.

SQL>

SQL>

SQL> ende

SP2-0042: unknown command "ende" - rest of line ignored.

SQL>

SQL>

SQL>

> declare

2 a number;

3 b number;

4 c number;

5 begin

6 a:=&a;

7 b:=&b;

8 c:=&c;

9 if(a>b and a>c) then

10 dbms\_output.put\_line('a is maximum'||a);

11 elsif(b>a and b>c) then

12 dbms\_output.put\_line('b is maximum'||b);