1. A)SET SERVEROUTPUT ON

DECLARE

ID TBLCOUNTRIES.COUNTRY\_ID % TYPE;

NAME TBLCOUNTRIES.COUNTRY\_NAME % TYPE;

R\_ID TBLCOUNTRIES.REGION\_ID % TYPE;

BEGIN

SELECT COUNTRY\_ID, COUNTRY\_NAME, REGION\_ID INTO ID,NAME,R\_ID

FROM TBLCOUNTRIES

WHERE COUNTRY\_NAME = 'India';

DBMS\_OUTPUT.PUT\_LINE('Values from the country table ' || ID||' '||NAME||' '||R\_ID);

END;

B)SET SERVEROUTPUT ON

DECLARE

ID TBLCOUNTRIES.COUNTRY\_ID % TYPE;

NAME TBLCOUNTRIES.COUNTRY\_NAME % TYPE;

R\_ID TBLCOUNTRIES.REGION\_ID % TYPE;

V\_COUNTRY\_ID ID%TYPE := 'CA';

CURSOR C1 IS

SELECT COUNTRY\_ID,COUNTRY\_NAME,REGION\_ID

FROM TBLCOUNTRIES;

V\_COUNTRY\_RECORDS C1%ROWTYPE;

BEGIN

SELECT COUNTRY\_ID, COUNTRY\_NAME, REGION\_ID INTO ID,NAME,R\_ID

FROM TBLCOUNTRIES

WHERE COUNTRY\_NAME = 'India';

DBMS\_OUTPUT.PUT\_LINE('Values from the country table ' || ID||' '||NAME||' '||R\_ID);

END;

C)SET SERVEROUTPUT ON

DECLARE

ID TBLCOUNTRIES.COUNTRY\_ID % TYPE;

NAME TBLCOUNTRIES.COUNTRY\_NAME % TYPE;

R\_ID TBLCOUNTRIES.REGION\_ID % TYPE;

V\_COUNTRY\_ID ID%TYPE := 'CA';

CURSOR C1 IS

SELECT COUNTRY\_ID,COUNTRY\_NAME,REGION\_ID

FROM TBLCOUNTRIES;

V\_COUNTRY\_RECORDS C1%ROWTYPE;

BEGIN

SELECT COUNTRY\_ID, COUNTRY\_NAME, REGION\_ID INTO ID,NAME,R\_ID

FROM TBLCOUNTRIES

WHERE COUNTRY\_ID=v\_country\_id;

DBMS\_OUTPUT.PUT\_LINE('Values from the country table ' || ID||' '||NAME||' '||R\_ID);

END;

D)SET SERVEROUTPUT ON

DECLARE

ID TBLCOUNTRIES.COUNTRY\_ID % TYPE;

NAME TBLCOUNTRIES.COUNTRY\_NAME % TYPE;

R\_ID TBLCOUNTRIES.REGION\_ID % TYPE;

V\_COUNTRY\_ID ID%TYPE := 'DE';

CURSOR C1 IS

SELECT COUNTRY\_ID,COUNTRY\_NAME,REGION\_ID

FROM TBLCOUNTRIES;

V\_COUNTRY\_RECORDS C1%ROWTYPE;

BEGIN

SELECT COUNTRY\_ID, COUNTRY\_NAME, REGION\_ID INTO ID,NAME,R\_ID

FROM TBLCOUNTRIES

WHERE COUNTRY\_ID=v\_country\_id;

DBMS\_OUTPUT.PUT\_LINE('Values from the country table ' || ID||' '||NAME||' '||R\_ID);

END;

1. A) SET SERVEROUTPUT ON;

DECLARE

V\_DEPARTMENT\_NAME TBLDEPARTMENTS.DEPARTMENT\_NAME%TYPE;

CURSOR C1 IS

SELECT DEPARTMENT\_NAME FROM TBLDEPARTMENTS;

BEGIN

OPEN C1;

LOOP

FETCH C1 into V\_DEPARTMENT\_NAME;

EXIT WHEN C1%NOTFOUND;

dbms\_output.put\_line(V\_DEPARTMENT\_NAME);

END LOOP;

CLOSE C1;

END;

B)SET SERVEROUTPUT ON;

DECLARE

V\_LOOP\_COUNT NUMBER:=10;

V\_DEPARTMENT\_NUMBER NUMBER:=0;

CURSOR C1 IS

SELECT DEPARTMENT\_NAME FROM TBLDEPARTMENTS;

TYPE NAME\_LIST IS TABLE OF TBLDEPARTMENTS.DEPARTMENT\_NAME%TYPE INDEX BY BINARY\_INTEGER;

NLIST NAME\_LIST;

COUNTER NUMBER:=0;

BEGIN

FOR N IN C1 LOOP

COUNTER := COUNTER+1;

NLIST(COUNTER):=N.DEPARTMENT\_NAME;

DBMS\_OUTPUT.PUT\_LINE('Department('||counter||'):'||NLIST(counter));

END LOOP;

END;

C) SET SERVEROUTPUT ON;

DECLARE

CURSOR C1 IS

SELECT DEPARTMENT\_NAME FROM TBLDEPARTMENTS;

TYPE NAME\_LIST IS TABLE OF TBLDEPARTMENTS.DEPARTMENT\_NAME%TYPE INDEX BY BINARY\_INTEGER;

NLIST NAME\_LIST;

COUNTER NUMBER:=0;

BEGIN

FOR N IN C1 LOOP

COUNTER := COUNTER+10;

NLIST(COUNTER):=N.DEPARTMENT\_NAME;

DBMS\_OUTPUT.PUT\_LINE('Department('||counter||'):'||NLIST(counter));

IF COUNTER>90 THEN

EXIT;

END IF;

END LOOP;

END;

D) SET SERVEROUTPUT ON;

DECLARE

CURSOR C1 IS

SELECT DEPARTMENT\_NAME FROM TBLDEPARTMENTS;

TYPE NAME\_LIST IS TABLE OF TBLDEPARTMENTS.DEPARTMENT\_NAME%TYPE INDEX BY BINARY\_INTEGER;

NLIST NAME\_LIST;

COUNTER NUMBER:=0;

BEGIN

FOR N IN C1 LOOP

COUNTER := COUNTER+10;

NLIST(COUNTER):=N.DEPARTMENT\_NAME;

END LOOP;

WHILE(COUNTER>0)

LOOP

DBMS\_OUTPUT.PUT\_LINE('Department('||counter||'):'||NLIST(counter));

COUNTER:=COUNTER-10;

END LOOP;

END;

3.

A)SET SERVEROUTPUT ON;

DECLARE

CURSOR C1 IS

SELECT DEPARTMENT\_NAME FROM TBLDEPARTMENTS;

TYPE NAME\_LIST IS TABLE OF TBLDEPARTMENTS.DEPARTMENT\_NAME%TYPE INDEX BY BINARY\_INTEGER;

NLIST NAME\_LIST;

COUNTER NUMBER:=0;

BEGIN

FOR N IN C1 LOOP

COUNTER := COUNTER+10;

NLIST(COUNTER):=N.DEPARTMENT\_NAME;

END LOOP;

WHILE(COUNTER>0)

LOOP

DBMS\_OUTPUT.PUT\_LINE('Customer('||counter||'):'||NLIST(counter));

COUNTER:=COUNTER-10;

END LOOP;

END;

B)SET SERVEROUTPUT ON;

DECLARE

CURSOR C1 IS

SELECT DEPARTMENT\_ID,DEPARTMENT\_NAME,MANAGER\_ID,LOCATION\_ID FROM TBLDEPARTMENTS;

TYPE NAME\_LIST IS TABLE OF TBLDEPARTMENTS%ROWTYPE INDEX BY BINARY\_INTEGER;

NLIST NAME\_LIST;

COUNTER NUMBER:=0;

BEGIN

FOR N IN C1 LOOP

COUNTER := COUNTER+1;

NLIST(COUNTER).DEPARTMENT\_NAME:=N.DEPARTMENT\_NAME;

NLIST(COUNTER).DEPARTMENT\_ID :=N.DEPARTMENT\_ID;

NLIST(COUNTER).MANAGER\_ID :=N.MANAGER\_ID;

NLIST(COUNTER).LOCATION\_ID :=N.LOCATION\_ID;

END LOOP;

END;

C)SET SERVEROUTPUT ON;

DECLARE

CURSOR C1 IS

SELECT DEPARTMENT\_ID,DEPARTMENT\_NAME,MANAGER\_ID,LOCATION\_ID FROM TBLDEPARTMENTS;

TYPE NAME\_LIST IS TABLE OF TBLDEPARTMENTS%ROWTYPE INDEX BY BINARY\_INTEGER;

NLIST NAME\_LIST;

COUNTER NUMBER:=0;

BEGIN

FOR N IN C1 LOOP

COUNTER := COUNTER+1;

NLIST(COUNTER).DEPARTMENT\_NAME:=N.DEPARTMENT\_NAME;

NLIST(COUNTER).DEPARTMENT\_ID :=N.DEPARTMENT\_ID;

NLIST(COUNTER).MANAGER\_ID :=N.MANAGER\_ID;

NLIST(COUNTER).LOCATION\_ID :=N.LOCATION\_ID;

END LOOP;

WHILE(COUNTER>0)

LOOP

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).DEPARTMENT\_NAME);

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).DEPARTMENT\_ID);

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).MANAGER\_ID);

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).LOCATION\_ID);

COUNTER:=COUNTER-10;

END LOOP;

END;

D) SET SERVEROUTPUT ON;

DECLARE

CURSOR C1 IS

SELECT DEPARTMENT\_ID,DEPARTMENT\_NAME,MANAGER\_ID,LOCATION\_ID FROM TBLDEPARTMENTS;

TYPE NAME\_LIST IS TABLE OF TBLDEPARTMENTS%ROWTYPE INDEX BY BINARY\_INTEGER;

NLIST NAME\_LIST;

COUNTER NUMBER:=0;

BEGIN

FOR N IN C1 LOOP

COUNTER := COUNTER+1;

NLIST(COUNTER).DEPARTMENT\_NAME:=N.DEPARTMENT\_NAME;

NLIST(COUNTER).DEPARTMENT\_ID :=N.DEPARTMENT\_ID;

NLIST(COUNTER).MANAGER\_ID :=N.MANAGER\_ID;

NLIST(COUNTER).LOCATION\_ID :=N.LOCATION\_ID;

END LOOP;

WHILE(COUNTER>0)

LOOP

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).DEPARTMENT\_NAME);

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).DEPARTMENT\_ID);

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).MANAGER\_ID);

DBMS\_OUTPUT.PUT\_LINE(NLIST(COUNTER).LOCATION\_ID);

COUNTER:=COUNTER-10;

END LOOP;

END;