Mutasem obeidat 202020455

Homework# 2

Bottom of Form

Q1)

**1.**

BEGIN

DECLARE

TODAY DATE := SYSDATE;

TOMORROW TODAY%TYPE;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Hello World');

TOMORROW := TODAY + 1;

DBMS\_OUTPUT.PUT\_LINE('Today: ' || TO\_CHAR(TODAY, 'Month dd, yyyy'));

DBMS\_OUTPUT.PUT\_LINE('Tomorrow: ' || TO\_CHAR(TOMORROW, 'Month dd, yyyy'));

END;

END;

**2.**

DECLARE

my\_date DATE := SYSDATE;

v\_last\_day DATE;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Today: ' || TO\_CHAR(my\_date, 'Month dd, yyyy'));

v\_last\_day := LAST\_DAY(my\_date);

DBMS\_OUTPUT.PUT\_LINE('Last day of the month: ' || TO\_CHAR(v\_last\_day, 'Month dd, yyyy'));

END;

**3.**

DECLARE

my\_date DATE := SYSDATE;

v\_new\_date DATE;

months\_difference NUMBER;

BEGIN

v\_new\_date := my\_date + 45;

months\_difference := MONTHS\_BETWEEN(v\_new\_date, my\_date);

DBMS\_OUTPUT.PUT\_LINE('New date after 45 days: ' || TO\_CHAR(v\_new\_date, 'Month dd, yyyy'));

DBMS\_OUTPUT.PUT\_LINE('Months between today and the new date: ' || months\_difference);

END;  
  
**Q2)**

**1.**

CREATE TABLE countries (

country\_name VARCHAR2(50),

median\_age NUMBER(6, 2)

);

INSERT INTO countries (country\_name, median\_age) VALUES ('Japan', 48.3);

INSERT INTO countries (country\_name, median\_age) VALUES ('USA', 38.5);

INSERT INTO countries (country\_name, median\_age) VALUES ('India', 28.4);

INSERT INTO countries (country\_name, median\_age) VALUES ('Germany', 46.7);

INSERT INTO countries (country\_name, median\_age) VALUES ('Brazil', 32.9);

**2.**

DECLARE

country\_name countries.country\_name%TYPE;

median\_age countries.median\_age%TYPE;

CURSOR country\_cursor IS

SELECT country\_name, median\_age

FROM countries

WHERE country\_name = 'Japan';

BEGIN

OPEN country\_cursor;

FETCH country\_cursor INTO country\_name, median\_age;

IF country\_cursor%FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('The median age in ' || country\_name || ' is ' || median\_age || '.');

END IF;

CLOSE country\_cursor;

END;