**DATABASE LEVEL-2**

1.**Write a PL/SQL block to calculate the incentive of an employee whose ID is 110.**

DECLARE

incentive NUMBER(8,2);

BEGIN

SELECT Salary \* 0.12 INTO incentive

FROM EmployeePosition

WHERE EmpID = 110;

DBMS\_OUTPUT.PUT\_LINE('Incentive = ' || TO\_CHAR(incentive));

END;

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**2. Write a PL/SQL program to check whether a given character is letter or digit.**

DECLARE

input\_char CHAR(1) := '5';

is\_letter BOOLEAN := FALSE;

is\_digit BOOLEAN := FALSE;

BEGIN

IF ASCII(input\_char) BETWEEN ASCII('A') AND ASCII('Z') OR

ASCII(input\_char) BETWEEN ASCII('a') AND ASCII('z') THEN

is\_letter := TRUE;

ELSIF ASCII(input\_char) BETWEEN ASCII('0') AND ASCII('9') THEN

is\_digit := TRUE;

END IF;

IF is\_letter THEN

DBMS\_OUTPUT.PUT\_LINE('The character ''' || input\_char || ''' is a letter.');

ELSIF is\_digit THEN

DBMS\_OUTPUT.PUT\_LINE('The character ''' || input\_char || ''' is a digit.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('The character ''' || input\_char || ''' is neither a letter nor a digit.');

END IF;

END;

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**3. Write a PL/SQL program to check whether a date falls on weekend i.e. SATURDAY or SUNDAY.**

DECLARE

v\_date DATE := TO\_DATE('2023-06-12', 'YYYY-MM-DD');

v\_weekday VARCHAR2(10);

BEGIN

SELECT TO\_CHAR(v\_date, 'DAY') INTO v\_weekday FROM DUAL;

IF v\_weekday = 'SATURDAY' OR v\_weekday = 'SUNDAY' THEN

DBMS\_OUTPUT.PUT\_LINE('The date ' || TO\_CHAR(v\_date, 'YYYY- MM-DD') || ' falls on a weekend.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('The date ' || TO\_CHAR(v\_date, 'YYYY-MM-DD') || ' does not fall on a weekend.');

END IF;

END;

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**4. Write a PL/SQL program to check whether a given number is positive, negative or zero.**

DECLARE

num INTEGER := -2;

BEGIN

IF num > 0 THEN

dbms\_output.put\_line('The number ' || num || ' is positive.');

ELSIF num < 0 THEN

dbms\_output.put\_line('The number ' || num || ' is negative.');

ELSE

dbms\_output.put\_line('The number ' || num || ' is zero.');

END IF;

END;

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**5. Write a PL/SQL program to find whether a given string is palindrome or not.**

DECLARE

str varchar2(50):='MADAM';

counter int:=length(str);

BEGIN

dbms\_output.put\_line(counter);

LOOP exit WHEN counter=0;

exit WHEN not(substr(str,counter,1)=substr(str,((length(str)+1)-counter),1));

counter:=counter-1;

END LOOP;

IF counter=0 THEN dbms\_output.put\_line(str||'is palindrom');

ELSE dbms\_output.put\_line(str||'is not palindrom');

END IF;

END;

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**6. Write a PL/SQL block to display the current date and time.**

BEGIN

dbms\_output.put\_line(SYSTIMESTAMP);

END;

**7. Write a PL/SQL block to calculate the area of a rectangle, given its length and width as input.**

DECLARE

length NUMBER;

width NUMBER;

area NUMBER;

BEGIN

-- Input length and width

length := &length\_input;

width := &width\_input;

-- To calculate the area

area := length \* width;

-- To display the area

DBMS\_OUTPUT.PUT\_LINE('The area of the rectangle is: ' || area);

END;

**8. Write a PL/SQL block to display the first 10 even numbers.**

declare

x number := 0;

begin

for x in 1..20 loop

if mod(x,2)=0 then

dbms\_output.put\_line ( x);

end if;

end loop;

end;