1.Write cursor to print 5 records of high salaries employees

DECLARE

CURSOR emp\_cursor IS

SELECT emp\_id, ename, sal

FROM

(

SELECT emp\_id, ename, sal

FROM emp40

ORDER BY sal DESC

)

WHERE ROWNUM <= 5;

emp\_record emp40%ROWTYPE;

BEGIN

OPEN emp\_cursor;

LOOP

FETCH emp\_cursor INTO emp\_record;

EXIT WHEN emp\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Employee ID: ' || emp\_record.emp\_id || ', Name: ' || emp\_record.ename || ', Salary: ' || emp\_record.sal);

END LOOP;

CLOSE emp\_cursor;

END;

2. create table with requires constraints and solve queries CUSTOMER (cust\_id, cust\_name, address, phone\_no) MOVIE(m\_id, name, type, star, price)

1. get movie id associated with customer name 'Rahul'

2. select min and max price as MIN\_PRICE and MAX\_PRICE

CREATE TABLE CUSTOMER401(cust\_id INT PRIMARY KEY, cust\_name VARCHAR(10),address VARCHAR(20),phone\_no NUMBER(10),m\_id int references movie);

CREATE TABLE MOVIE (m\_id INT PRIMARY KEY,name VARCHAR(10),type VARCHAR(50),star VARCHAR(10),price FLOAT);

1. SELECT m\_id

FROM CUSTOMER401

WHERE cust\_name = 'Rahul';

2. SELECT MIN(price) AS MIN\_PRICE, MAX(price) AS MAX\_PRICE

FROM MOVIE;

3. Write PL/SQL block that print today's date

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Today''s date is: ' || TO\_CHAR(SYSDATE, 'YYYY-MM-DD'));

END;

4. Write a plsql code to print first 10 even numbers

DECLARE

counter NUMBER := 0;

number\_to\_check NUMBER := 0;

BEGIN

WHILE counter < 10 LOOP

number\_to\_check := number\_to\_check + 1;

IF MOD(number\_to\_check, 2) = 0 THEN

counter := counter + 1;

DBMS\_OUTPUT.PUT\_LINE('Even number: ' || number\_to\_check);

END IF;

END LOOP;

END;

5. Solve the following queries by creating tables with proper constraints BILL(bill\_no, bill\_date, party\_code, bill\_amount, amount\_paid) PARTY(party\_code, party\_name, address)

1) Delete all bills from the last month

2) List amount wise bills in descending order

delete from bill where bill\_date< '01-JUL-2023' AND bill\_date> '31-MAY-2023';

OR

DELETE FROM BILL

WHERE EXTRACT(MONTH FROM bill\_date) = EXTRACT(MONTH FROM SYSDATE) - 1

AND EXTRACT(YEAR FROM bill\_date) = EXTRACT(YEAR FROM SYSDATE);

2. SELECT \* FROM BILL

ORDER BY BILL\_AMOUNT DESC;

6. Write a Pl Sql program to check user is eligible for voting or not.

DECLARE

user\_age NUMBER;

BEGIN

user\_age := :user\_input;

IF user\_age >= 18 THEN

DBMS\_OUTPUT.PUT\_LINE('You are eligible for voting.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('You are not eligible for voting.');

END IF;

END;

7. Write Cursor to increase all salesman salary by 500

DECLARE

CURSOR c\_salesman IS

SELECT emp\_id, salary

FROM employees

WHERE job\_title = 'salesman';

v\_emp\_id employees.emp\_id%TYPE;

v\_salary employees.salary%TYPE;

BEGIN

OPEN c\_salesman;

LOOP

FETCH c\_salesman INTO v\_emp\_id, v\_salary;

EXIT WHEN c\_salesman%NOTFOUND;

v\_salary := v\_salary + 500;

UPDATE employees

SET salary = v\_salary

WHERE emp\_id = v\_emp\_id;

DBMS\_OUTPUT.PUT\_LINE('Updated salary for employee ' || v\_emp\_id || ': ' || v\_salary);

END LOOP;

CLOSE c\_salesman;

END;

8. Write a cursor to increase the salary of employee whose department no is 10

DECLARE

CURSOR c\_employee IS

SELECT empno, sal

FROM emp

WHERE deptno = 10;

v\_empno emp.empno%TYPE;

v\_sal emp.sal%TYPE;

BEGIN

OPEN c\_employee;

LOOP

FETCH c\_employee INTO v\_empno, v\_sal;

EXIT WHEN c\_employee%NOTFOUND;

v\_sal := v\_sal + 500;

UPDATE emp

SET sal = v\_sal

WHERE empno = v\_empno;

DBMS\_OUTPUT.PUT\_LINE('Updated salary for employee ' || v\_empno || ': ' || v\_sal);

END LOOP;

CLOSE c\_employee;

END;

9. solve following queries by creating tables with proper constraints LANGUAGE(Lang\_Id,Lang,Country) VCD(V\_ID,V\_Name,Actor,Actress,Type,No\_of\_vcds,No\_of\_vcds\_issued,Language\_ID)

1) create a view which will display V\_ID, V\_Name,No\_of\_vcds,Language country.

2) Display language and no of VCDS available in that language

CREATE TABLE LANGUAGE (Lang\_Id INT PRIMARY KEY,Lang VARCHAR(20),Country VARCHAR(20));

CREATE TABLE VCD (

V\_ID INT PRIMARY KEY,V\_Name VARCHAR(20),Actor VARCHAR(20),

Actress VARCHAR(20),Type VARCHAR(20),No\_of\_vcds INT,

No\_of\_vcds\_issued INT,LANG\_Id INT references LANGUAGE);

1. CREATE OR REPLACE VIEW VCD\_View AS

SELECT V.V\_ID, V.V\_Name, V.No\_of\_vcds, L.Lang, L.Country

FROM VCD V

JOIN LANGUAGE L ON V.LANG\_Id = L.Lang\_Id;

1. SELECT L.Lang, SUM(V.No\_of\_vcds) AS No\_of\_VCDs\_Available

FROM LANGUAGE L

JOIN VCD V ON L.Lang\_Id = V.LANG\_Id

GROUP BY L.Lang;

10. Create a function to display total no of employees

CREATE OR REPLACE FUNCTION get\_total\_employees

RETURN NUMBER

IS

total\_employees NUMBER;

BEGIN

SELECT COUNT(\*) INTO total\_employees

FROM emp;

RETURN total\_employees;

END;

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11. create table book(book\_id,category,title, author,price, status) and book\_status(book\_id, membership, issue\_date,return\_date,fine\_charge,fine\_paid)

1.display all book having category "OS" or "DBMS"

2.decrease fine charges by 5% for all student who return book today

1. SELECT \*

FROM book

WHERE category IN ('os', 'dbms');

2.UPDATE book\_status

SET fine\_charge = fine\_charge - (fine\_charge \* 0.05)

WHERE membership = 'stud'

AND return\_date = TRUNC(SYSDATE);

12. Write a Pl/SQL block to perform credit and debit transactions on the account table.

create table account(accno int, name char(20), balance float);

insert into account values(:accno,:name,:balance);

DECLARE

ac\_no int;

amount float;

bal float;

choice char(10);

BEGIN

ac\_no := :account\_number;

amount := :amount;

choice := :Transaction\_type;

SELECT balance INTO bal

FROM account

WHERE accno = ac\_no;

IF SQL%FOUND THEN

dbms\_output.put\_line('Current balance : '||bal);

IF (choice = 'C') THEN

UPDATE account SET balance = balance+amount;

bal := bal+amount;

dbms\_output.put\_line('Amount credited successfully....');

dbms\_output.put\_line('ACCOUNT DETAILS:');

dbms\_output.put\_line('account number : '|| ac\_no || ' Balance : '||bal);

ELSE

IF(amount>bal) THEN

dbms\_output.put\_line('Insufficient balance....');

ELSE

IF (choice = 'D') THEN

UPDATE account SET balance = balance-amount;

bal :=bal- amount;

dbms\_output.put\_line('Amount debited successfully....');

dbms\_output.put\_line('ACCOUNT DETAILS:');

dbms\_output.put\_line('account number : '|| ac\_no || ' Balance : '||bal);

END IF;

END IF;

END IF;

ELSE

dbms\_output.put\_line('Accout not found');

END IF;

END;

13. Write plsql block for printing odd numbers from 1 to 20

declare

n number := 1;

no number(2) := :Enter\_number;

begin

--can change no below to number if mentioned in question

while n<=no

loop

dbms\_output.put\_line(n);

n := n+2;

end loop;

end;

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create a trigger which will increase the salary of salesman by 10% ye wala nahi kiya kya?

CREATE OR REPLACE TRIGGER increase\_salesman\_salary

BEFORE UPDATE ON emp

FOR EACH ROW

WHEN (NEW.job = 'SALESMAN')

BEGIN

:NEW.sal := :OLD.sal + :OLD.sal\* 0.1;

END;

Update emp set sal=2000 where empno=7499;