Practical Assignment - 3

Q-1. Create PLISQL Blocks Simple programming: 2. Write a block for declaring variable A with value so add 20 in A and display the message "The value of DECLARE a int := 50; BEGIN a:= a + 90; DBMS_OUTPUT. PUTITINE ('The seam value of A = '11 a); END; 4. Write a block to take input of two variables and display the same string on screen. average of two number D PCI ARE a int; BEGIN c:=84; b := 2 b; avg := (a+b) /2; DBMS OUTPUT. PUT_LINE ('The reverage of two number is 11 avg); EMD; VISION

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6. Write a block to take input of Rollno, Name, Pe
and birthdate. Display each in separate line wi
             -> OECLARE
                       mo int;
                       name varchare (50);
                       per flout
                       dob date;
             BEGIN
                    mo:= 8 mo;
                    name:= \Zname !;
                    per := 2:per;
                    dob := '&dob';
                  DBMS_OUTPUT.PUT_LINE('Rno = 'Il rno);
                 DBMS_OUTPUT. PUT_LINE('Name = 'Il name);
                 DBMS_OUTPUT_PUT_LINE('Per='11 per);
                DBMS OUTPUT PUT LINE('DOB = 1 11 dob);
           END;
       8. Write a block to take input of radius from and display the area of circle.
                                                                   user
                & flood;
               acc float:
         BEGIN
               8:=38;
               COC := 3.14 * (7*7);
             DBMS_OUTPUT. PUT_LINE ('Area of circle is ' 11 aoc)i
        EMD;
vision
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4	o. Write a block to take input of laptop prices quantity—and discount. Display the total amount and payble—amount (after deduction of discount).
	and discount. Display the total amount and payble
	comparat (ciffex deduction of discount).
	DECLARE
121 121 121 121	price int;
	Price (111)
	qty int;
	dis int;
	BECEIN
10	price := 8 price;
	qty := 8 qty;
	dis := 8 dis;
	DBMS_OUTPUT.PUT_LINE ('The fotal amount is'_
	11 price * qty);
	DBMS_OUTPUT. PUT_LINE ('The total payble amount is' 11 (price * aty) - (price * aty * dis7/100));
	is' 11 (price * aty) - (price * aty * dis7 /100));
	END;
Jan San J	i comparation and an appropriate and a second a second and a second and a second and a second and a second an
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Island and municipal	Example 1 to 1 t

<u> </u>	2	Programming with destablise
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Market Company	*	Create themp and toldept
		CREATE TABLE toldept (did VARCHAR2(JO) PRIMARY KEY,
*		did VARCHAR 2(10) FRACTOR (CT)
		d'acime VARCHARE(50)
,	─ >	CREATE TABLE Holemp (
		empid INT PRIMARY KEX,
		frame VARCHAR 2 (50) NOT NULL,
		Incime VARCHARE (50),
		idate DATE,
		salary INT manager id INT,
		post VARCHAR2(so),
		deptid VARCHARE(20),
		FOREIGN KEX (dept_id) REFERENCES +5/dept(did)
£)5
		9
	*	Inserting records
		d d
		INSERT INTO Holdept (did, d'norme) VALUES
		('p1', 'Finance'),
		('D2', 'Production'),
		('D3', 'Marketiner'), ('D4', 'IT');
		('D4', 'IT');
		INSERT INTO themp (empid, frame frame idade salary
		memceges_id, post dept id) VALUES
		INSERT INTO themp (empid, frame, Incime, jdade, salary meinceges_id, post, dept id) VALUES (101, 'Hemant', 'Sharma', '1995-01-20', 50000, o, Manager', 'D1')
	vision	

	(102, 'Ritu', '(sundhi', '20-12-20', 45000,0, Manager) D2')
	(103 'Marry' 'Mistry' '2001-11-12', 30,000, 101, Programmer', DI')
	(103, 'Maya', 'Mistry', '2001-11-12', 30,000, 101, 'Programmer', 'DI') (104, 'Riyu', 'Patel', '2003-09-15', 28000, 102, 'Programmer', 'D2'), (105, 'Shreyu', 'Patel', '2010-10-17', 5000, 101, 'Peon', 'D1'),
	(405 'shrows' 'Petel' 19010 -10-17',5000, 101, Peon', 'D1')
	(106, 'Kurun', 'Putel', '2015-08-18', 5000, 102, 'Peon', 'De'),
	(107, Rey anshi', 'Lyas', '2011-06-05', \$15000, 107, 'Clerk', 'DI'),
	Gos, 'Mehul', 'Mehta', 2010-05-06', 17000, 202, 'Clerk', '02'),
	(109, Korpali, Patil, 12015-04-08, 10000, 101, Accountant, DI),
	(100), Notifically (1001), 1001, 100
5	(120, Moutry', Vyas', '8017-03-11', 10000, 708, 'Accountant', '02'), (111, Mohan', Mehtal, '2020-02-27', 15000, 101, 'Electrician', '01');
	(112, Mohan, Menta, 2020 = 2-21 ,2000), 200, 200, 200,
	Display the frame of employee whose EID is 107
11	Area der
	VECLARE VIname Holemp. fncime 7- TYPE;
<u> </u>	III.
	BEGIN SELECT frame INTO viname from themp
	WHERE empid = 107; DBMS_OUTPUI-PUI_LINE('Fname: 'Il vfname);
	END;
	/ 113
	0.04
13.	Display the joining date of employee whose surname is Patil
\rightarrow	PECLARE
	vidate themp. jdate 1. TYPE:
	BEGIN
	SELECT idate INTO vidate FROM Holemp
	WHERE Iname = 'Patil';
	DBMS_OUTPUT. PUT_LINE ('Joining date: '11 vidate);
	EHO;
	/ Comment of the second of the
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15. Display the detail of employee whose joining date is 15th September 2003. DECLARE emp tolempr-ROWTYPE; . SELECT * INTO emp FROM themp WHERE joute = TO DATE (15-SEP-2003', DP-MON-XYY) DBMS_OUTPUT.PUT_LINE ('Emp ID: '11 emp. empid); DBMS_DUTPUT. PUT_LINE('Fname: ' 11 emp.frume); DBMS OUTPUT. PUT_LINEC' Lname: 'Il emp. (name); DBMS_OUTPUT.PUT_LINE('Idute: '11 emp: idate); DBMS OUTPUT. PUT LINE ('Salary: 'Il emp. salary);
DBMS OUTPUT. PUT LINE ('Manage ID: 'llemp. manager id);
DBMS OUTPUT. PUT LINE ('Post: 'Il emp. post); DBMS_OUTPUT. PUT_LIME ('Dept. ID: ' 11 emp. dept. id); END; 27 Display the detail of employer whose FID is imputted by user. -> PECLARE e Holemp / ROWTYPE; BEGIN eid := & Eid; SELECT * INTO & e FROM Holemp WHERE empid=eigs PBMS_OUTPUT_PUT LITHE ('Empid: 'Il e.empid); DBMS_OUTPUT_PUT_LINE ('Frame: '11 e frame); DBMS OUTPUT. PUT_LINE ('Incime: '11 e. Inqine); VISION

OBMS_ONTPUT_PUT_LINE('Jdate: '11 e. jdate); DBMS_OUTPUT. PUTLINE ('Scalary' ' 11 e. scalary); DBMS_OUTPUT. PUT LINEC'Manager id: '11 e. manager id); DBMS OUTPUT. PUT_LINEC'POST: ! 11 e. post); DBMS_OUTPUT.PUT_LINE('Dept id: 'Il'e.dept_id); EMD; 19. Display the eid fname, salary and dname of the employee whose eid is given by the user > DECLARE veid tolemp.empidy. TYPE; vfname tolemp.fnamey.TYPE; vsalary themp. salary 7- TYPE; vanamo toldept. anamer. TYPE3 BEGJIN veid = seid; SELECT efficime, esculary, d. drume INTO veid utname, vscalary, vanamo FROM Holempe JOIN toldept d ON e. dept_id = d.did WHERE e. empid = veid; DBMS_OUTPUT_PUT_LINE ('Empide'll veid); DBMS_OUTPUT.PUT_LINEC' Frame: '11 rframe); DBMS_OUTPUT_PUT_LINEC'Salary: 11 vsalary);
DBMS_OUTPUT.PUT_LINEC'Drame: 11 vdname); END;

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0.3	Programming with conditional statements:	m,
93.	Take input of single number and display whether	
	number is even or odd.	
	DECLARE	
	n int;	
	State of the state	
	BEGIN	
	n := 8 numbers	
a	IF mod(n,2) = 0 THEN	
	DBMS_OUTPUT. PUT_LINE('EVEN');	
	ELSE	
	PBMS_OUTPUT.PUT_LINE('odd');	
	EMO JF;	
	ENDS	
94	. Take input of a year and check whether it is a leap	
	year or not	_
	> DECLARE	
*	year NUMBER;	
1	BEGIN	
-		
	JEUX:= & year; IF year 14 mod (year, 4) = 0 THEN PBMS_OUTPUT. PUT_LINE('Leap year');	
	DRAG CUTPUT PUT ITNEC 'lean recur');	
_	DEMS_ODITOI. FOI LITTLE ECOP GCG.	7.
-	ELSE	
	pBMS_DUTPUT. PUT_LINE(' is not Leap year');	
	END 1F;	
	END;	
		-
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	I the second respective to the second respecti	- I - I - I - I - I - I - I - I - I - I

26. Take input of two number and perform the addition, subtraction, multiplication or division as per user choice > ex 1 for cellation. 2 for subtruction 3 for Multiplication 4 for Division otherwise Wrong InPut -> DECLARE nt number; ne NUMBER; C MUMBER; BECSIN m1 := 8 Enter num_1; ne := 8 Enter num 2; c := 8 Enter_choice; CASE C WHEN I THEN DBMS_OUTPUT.PUT_LINE ('A+B='11 ni +ne); WHEN & THEN QF PRMS_DUTPUT.PUT_LINE('A-B='11 nd-ne); WHEN 3 THEN DBMS_OUTPUT.PUT_LINE('AxB=1 11 n1 * n2); WHEN 4 THEN DBMS_OVTPUT_PUT_LINE ('A/B= '11 A/B nz/ne); ELSE DBBMS_OUTPUT. PUT LINE ('Wrong Input.'); END CASE; END; Vision Vision

Q_4	Programming with destablise
	of his -
27	Display the employee detail of given EID if his scalary is less than 20000
	schary is less than 20000
→ >	DECLIFRE
	eI Hempit. ROWTYPE;
	veid thlempt.empid 1.74PE;
	BECSIN
	veid= reid;
	SELECT * INTO et From Holempt WHERE empid = veid & AMD scalary < 20000;
	WHERE empid = verd & ATTA SCHOOL = 2
	- compide in the state of a state of the sta
	DBMS_OUTPUT.PUT_LIME ('Eid:' 11 ed.empid);
	PBMS_OUTPUT.PUT_LIME ('Fname: '11 et.fname);
	DBMS OUTPUT. PUT LINE ('Lname: 'Il et. Iname);
	DBMS OUTPUT. PUT LINE ('Salary: 11 et. salary);
	OBMS OUTPUT. PUT LINE (Post : 11 et. post);
	DBMS OUTRIT. PUT LINE (' Pept ID: '11 et. deptid);
* +	EMO;
1	1 1 2 4 0 4 00 1000
23.	Display the employee detail of reon 81 12 depart
*	Display the employee detail of Peon of De deput ment of his scalary is more than 8000
\rightarrow	PECLARE
7	CURSOR PEOTL CUISOD IS
	SELECT * FROM themps
	WHERE post = 'Peon'
	AND dept_id = 'D2'
	AHO scelary > 8000;
	AND dept_id = 'D2' AHD scalary > 8000's ed themply. ROWTKPE";
	BEGIN
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(A DWE FEE	

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OPEN peon_cursor;
            LOOP
                FETCH peon crissos INTO et;
                EXIT WHEN PEONLUTERY, NOTFOUNDS
               DBMS_OUTPUT. PUT_LINE ('Eid: ' 11 et empid 11
                                        ', Name: 'Il et frame 11
                                       'Salary: 11 et. salary 11
                                       'Post: 'lled.post 11
                                        ' Dept: ! Il et dept id),
               END LOOP;
               (LOSE peon cursor;
      EMD;
   31 Update the salary of given eid by adding 5000 if his joining date is in year 2015
    > DECLARE
              e tblempty. ROWTYPE;
Veid tblempt. empidy. TYPE;
       BEGIN
              veid = & eid;
             SELECT * INTO e FROM Holempt
             WHERE empid = veid AND
              TO_CHAR(jdcde, 'xx77') = '2015';
             UPPATE Holempz
             SET salary = salary + 5000
             WHERE empid = veid
       EMD;
vision
```

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33. Display the employee details with department name of a given frame if they are an Accountant
     -> DECLARE
               e thlempt 1. ROWTYPE;
              vdep+ tbldept.dname 7-77PE;
              v friame tolempt friamer. TYPE;
         BEGIN
               vfname := '& fname';
                SELECT Holempt. * , Holdept. dname INTO e, vdept
                FROM Hempy
                JOIN toldept ON tolempt. dept_id = toldept. did
                WHERE Hiempt. frame = vframe AND
                 Holempy. post = 'Accountant';
             DBMS_OUTPUT_PUT_LINE('Fid:'11 e.empid);
DBMS_OUTPUT_PUT_LINE('Fnume:'11 e.vfname);
             DBMS OUTPUT_PUT_LTNEC' Lname: '11 e. Iname);
             DBMS_DUTPUT. PUT_LINF ('Jdcate: '11 e. jdcate);
             DBMS OUTRUT. PUT LINE ('Salary: '11 e-sculary);
             PBMS_OUTPUT&PUT_LIME('Post: 111 espost);
             DBMS_OUTPUT. PUT LIME ('Manager ID: 'lle manager id);
             DBMS_OUTPUT. PUT_LIHE('Dept: '11 vdept );
          EMD;
       35 Delde the record of given eid if it belongs to the
           production
        -> DECLARE
                 veid toldept. d'name v. TYPE;
veid tolempz empid v. TYPE;
           BEGIN
   VisioN
                 MLIEBE EMBIG = reig;
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```
veid := 8 eid;
           SELECT Holder dincime INTO vdept FROM Holder I
           JOIN toldept ON tolemps. dept_id = toldept.did
           WHERE themps. empid = veid;
           IF vdept = Production' THEN
                DELETE FROM Holemps WHERE empid = veid;
           END IF;
     FNO;
   36. Update the employee's salary of given EID as per
      following criteria:
       scelary < 10000
                              add 5000
               2 30000
                                  7000
               2 40000
                                   9000
          otherwise
                                   10,000
    > DECLARE
          vsculary thempt salary 7-TYPE;
           reid tolempt. empidy. TYPE;
      BECZIN
           veid == 8 veid;
           SELECT salary INTO vsalary FROM Holempt
           WHERE empid = veid;
          IF - VSWary < 10000 THEN
              UPPATE Holemps SET scharg = scharg + 5000 9
              WHERE empid = veid;
           FESEJF VSCHOON < 30000 THEN
               UPPATE Themps SET scalary = scalary +7000
              WHERE emplois veid;
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ELSE IF Schary 240000 THEH UPPATE Holempt SET salary = salary + 9000 WHERE empid = veid; UPDATE Hempz SET salary = salary + 10000 WHERE empid = veid; EMDIF; END;

Database Programming Q.S 46 Employee of PI Depurtment DECLARE CURSOR emp IS SELECT * FROM tolermp WHERE dept_id = 'DI'; el Holempy-ROWTYPE's BEGIN OPEN emp; 100P FETCH emp INTO e1; EXIT WHEN en emp 1. NOT FOUND; PBMS_OUTPUT_PUT_LINE ('Fid: '11 elempid 11 'Frame: '11 et. frame 1) 'Iname: ' 11 et. Iname 11 ' Joute: ' 11 et. joute 11 'Salary: 'Il et. salary 11 Manager id: 11 et. Manager id 11 ' Post: '11 el. post 11 · Deptid: 111 et deptid); END LOOP; CLOSE emps FND; 48. Display employee's detail of Production department -> DECLARE CURSOR emp IS SELECT C. * FROM Holempe JOIN toldept d ON e.dept.id = d.did WHERE didnume = 'Production';

```
el Holempy ROWTYPE;
        BEGIN
            OPEN emp's
            LOOP
                FETCH emp INTO e1;
                EXIT WHEN emp? NOTFOUND;
                DBMS_OUTPUT.PUT_LINE ('Eid: '11 elempid 11
                           'Frame: '11 et. frame 11
                           'Lname: 'Il et Iname 11
                           'Idate: ' 11 et. jdate 11
                           ' Salary: 'Il et salary 11
                           'Post : 11 et. post 11
                           ' Dept: Production');
           END LOOP;
          CLOSE emp;
       END;
    50. Display employees detail whose surname is Patel
     > DECLARE
            (flrsor emp IS
            SELECT * FROM Holemp WHERE Iname= 'Patel';
            e Holempy. ROWTYPE;
       BEGIN
            OPEN emp;
            LOOP
                FETCH emp INTO e;
                EXIT WHEN emp! MOTFOUND;
                DBMS_OUTPUT.PUT_LINE('Eid: 'Il e.empid II 'Fname
                  : 'Il e frame Il 'Lname : 'Il e Iname Il 'Idate : ' Il
                  e. jdate 11 'salary: '11 e. salary 11 Post: '11 e. post);
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	END LOOP;
	END LOST 3
	CLOSE emp;
	MD;
	/
48.7	3 20 30 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30
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	The state of the s
NAMES OF THE PARTY	

Perform following on thempt table
. Delete records of peon employees.
+ BEGIN
DELETE FROM Holempl WHERE POST = 'Peon';
COMMIT;
EMO;
/
Update salary of Accountant by adding \$2000 if their jacobe is before 15.4 Jam 2016
their ideate is before 1st Jam 2016
DECLARE BEGIN
UPDATE Holempt
SFT scelcoy = scelary + 2000
WHERE post = Accountent AND
jdate < TO_DATE ('o] -JAN-2016', DD-MON-7777');
COMMIT;
ENO;
/
Delet Pode employees whose sociary is less than \$ 10,000
OFICIN
DELETE FROM Holempz WHERE Income = Partel AND salary < 10000;
MHERE Income = Patel AND salary < 10000;
COMMIT;
EHD;

55. Update sculary based on given conditions

BEGIN UPDATE tblemp! SET scaldry = CASE WHEN salary < 10000 THEN

salary = salary + 5000

WHEN salary < 30000 THEN

Salary + 7000

WHEN salary < 40000 THEN

salary + 9000

ELSE salary + 10000 CO ENDS COMMIT END;