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PRACTICAL: 7 PL / SQL PRACTICAL: 2

AIM: ROLLBACK, COMMIT AND CURSOR BASED PROGRAMS.

1. Analyze output of following scripts:

create table new_salary(id_no number(5),name varchar2(10),salary number (10)); insert into new_salary values('1','Ram',8000); insert into new_salary values('2','Shyam',6000); insert into new_salary values('3','Mahesh',11000); insert into new_salary values('4','Naresh',15000); select *from new_salary;

Table NEW_SALARY created.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

		NAME	SALARY
1	1	Ram	8000
2	2	Shyam	6000
3	3	Mahesh	11000
4	4	Naresh	15000

A. Begin

```
Insert into new_salary values ('6', '6000');
Update new_salary set salary=4000 where id=4;
Commit;
Rollback;
End;
```

Query: begin insert into new_salary values('6','Ramu',6000); update new_salary set salary=4000 where id_no='4';

```
commit;
delete from new_salary where id_no='3';
rollback; end;
```

Output:

	♦ ID_NO	♦ NAME	♦ SALARY
1	1	Ram	8000
2	2	Shyam	6000
3	3	Mahesh	11000
4	4	Naresh	4000
5	6	Ramu	6000

```
B. Begin
Insert into new_salary values (6, 6000);
Savepoint first;
Update new_salary set salary=50000 where id=5;
Rollback to savepoint first;
End;
```

Query: begin insert into new_salary values('6','Ramu',6000); savepoint first; update new_salary set salary=50000 where id_no=3; rollback to savepoint first; end; **Output:**

	∯ ID_NO	♦ NAME	SALARY
1	1	Ram	8000
2	2	Shyam	6000
3	3	Mahesh	11000
4	4	Naresh	4000
5	6	Ramu	6000
6	6	Ramu	6000

2. Write pl/sql blocks that first insert the new record into table salary. Update the salary of employee name 'Riya' and 'Rima' by 7000/- then check the total salary which does not exceed 20000/-.if it happens then UNDO the update and give the error message "TOTAL SALARY EXCEED 20000".

Table: Salary

Emp_no	Name	Salary
1001	Riya	5000
1002	Rima	10000
1003	Rekha	12000
1004	Dhara	6000

create table salary(emp_no number(10),name varchar2(10),salary number(10)); insert into salary values('1001', 'Riya', 5000); insert into salary values('1002','Rima',10000); insert into salary values('1003','Rekha',12000); insert into salary values('1004','Dhara',6000); select *from salary;

		♦ NAME	SALARY		
1	1001	Riya	5000		
2	1002	Rima	10000		
3	1003	Rekha	12000		
4	1004	Dhara	6000		

```
Query: declare
```

```
number(20); emp number(10);
name varchar2(10);
salary number(10);
```

```
begin emp:=&emp;
```

```
name:='&name'; salary:=&salary;
insert into salary values(emp,name,salary); savepoint v;
update salary set salary=salary+7000 where name='Riya'; update
salary set salary=salary+7000 where name='Rima';
select sum(salary)into s from salary;
if s>20000 then rollback to
savepoint v;
DBMS_OUTPUT_LINE('TOTAL SALARY EXCEED 20000');
end if;
```

Output:

end;

Here, value for emp_no=1005, name=Sonu, salary=15000

	♠ EMP_NO	NAME	SALARY
1	1001	Riya	5000
2	1002	Rima	10000
3	1003	Rekha	12000
4	1004	Dhara	6000
5	1005	Sonu	15000

3. Write a pl/sql to give 5% raise to every employee. Use Table Salary. Query: declare cursor cv is select emp_no,salary from salary; sal salary.salary%type; emp number(10);

begin open cv; loop fetch cv into emp,sal; exit when cv%notfound=true; sal:=sal+sal*0.05; update salary set salary=sal where emp_no=emp; end loop; close cv; end;

Output:

		♦ NAME	SALARY
1	1001	Riya	5250
2	1002	Rima	10500
3	1003	Rekha	12600
4	1004	Dhara	6300

4. Write a pl/sql block that find the table empmaster and stores the data into another table CITYLIST(no,name) where CITY='Bombay'. Create this pl/sql using following two:

Use pl/sql data type %TYPE Use pl/sql data %ROWTYPE.

Table: Empmaster

No	Name	City
10	Riya	Bombay
20	Rima	Delhi
30	Rekha	Bombay
40	Dhara	Ahemdabad
50	Dhaval	Jaypur

create table empmaster(no number(10),name varchar2(10),city varchar2(10)); insert into empmaster values('10','Riya','Bombay'); insert into empmaster values('20','Rima','Delhi'); insert into empmaster values('30','Rekha','Bombay'); insert into empmaster values('40','Dhara','Ahemdabad'); insert into empmaster values('50','Dhaval','Jaypur'); select *from empmaster;

	∜NO	♦ NAME	
1	10	Riya	Bombay
2	20	Rima	Delhi
3	30	Rekha	Bombay
4	40	Dhara	Ahemdabad
5	50	Dhaval	Jaypur

create table citylist(no number(10), name varchar2(10)); select
*from citylist;

i)

Query: declare

cursor viv is select no,name from empmaster where city='Bombay'; no1 empmaster.no% TYPE;

name1 empmaster.name% TYPE;

begin open viv; loop fetch viv into no1,name1; exit when viv%NOTFOUND=true; insert into citylist values(no1,name1); end loop; close viv; end;

Output:

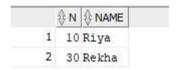
	₽N	♦ NAME
1	10	Riya
2	30	Rekha

ii)

Query: declare cursor viv is select no,name from empmaster where city='Bombay'; var viv%ROWTYPE;

begin open viv; loop fetch viv into var; exit when viv%NOTFOUND=true; insert into citylist values(var.no,var.name); end loop; close viv; end;

Output:



5. Write a pl/sql block that update SALARY of employee of a specified company Using parameter in Cursor.

Table: Temp

No	Company	Salary
01	INFOSYS	18000
02	TCS	22000
03	WIPRO	20000
04	ORACLE	25000

create table temp(no number(10),company varchar2(10),salary number(10)); insert into temp values('01','INFOSYS',18000); insert into temp values('02','TCS',22000); insert into temp values('03','WIPRO',20000); insert into temp values('04','ORACLE',25000); select *from temp;

	∯ NO		♦ SALARY
1	1	INFOSYS	18000
2	2	TCS	22000
3	3	WIPRO	20000
4	4	ORECAL	25000

Query: declare

cursor t(name varchar2, amt number) is select salary from temp where company=name; cmp temp.company%TYPE; sal temp.salary%TYPE; amt number(10);

begin

cmp:='&cmp';

amt:=&amt; open

t(cmp,amt); loop

fetch t into

sal;

update temp set salary=sal+amt where company=cmp; exit

when t% NOTFOUND=true;

end loop; close t;

end;

Output:

Here, value for cmp=WIPRO and amt=2345

	∜NO	♦ COMPANY	SALARY
1	1	INFOSYS	18000
2	2	TCS	22000
3	3	WIPRO	22345
4	4	ORACLE	25000

6. Display Only NO,NAME of First three row . Use table Empmaster (Use FOR LOOP) Query: declare

cursor c is select no,name from empmaster; begin for i in c loop

if c%ROWCOUNT<=3 then
DBMS_OUTPUT.PUT_LINE(i.no||' '|| i.name);
end if; end
loop; end;

output

10 Riya

20 Rima

30 Rekha