**PRACTICAL FILE**

**OF**

**DATABASE MANAGEMENT SYSTEM**



**Submitted To: Submitted By:**

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**Program 1(a):- Write the queries for Data Definition Language (DDL) in RDBMS.**

SQL> connect system

Connected.

SQL> create table student(Name varchar2(20), RollNo number(10), Branch varchar2(10));

Table created.

SQL> insert into student values('&Name', '&RollNo', '&Branch');

Enter value for name: Riya

Enter value for rollno: 101

Enter value for branch: CSE

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Riya', '101', 'CSE')

1 row created.

SQL> /

Enter value for name: Siya

Enter value for rollno: 102

Enter value for branch: IT

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Siya', '102', 'IT')

1 row created.

SQL> /

Enter value for name: Ayush

Enter value for rollno: 100

Enter value for branch: ME

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Ayush', '100', 'ME')

1 row created.

SQL> /

Enter value for name: Abhi

Enter value for rollno: 103

Enter value for branch: EE

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Abhi', '103', 'EE')

1 row created.

SQL> /

Enter value for name: Pooja

Enter value for rollno: 104

Enter value for branch: ECE

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Pooja', '104', 'ECE')

1 row created.

SQL> select \* from student;

NAME ROLLNO BRANCH

-------------------- ---------- ----------

Riya 101 CSE

Siya 102 IT

Ayush 100 ME

Abhi 103 EE

Pooja 104 ECE

SQL> alter table student add(MobileNo number(10));

Table altered.

SQL> select \* from student;

NAME ROLLNO BRANCH MOBILENO

-------------------- ---------- ---------- ----------

Riya 101 CSE

Siya 102 IT

Ayush 100 ME

Abhi 103 EE

Pooja 104 ECE

SQL> truncate table student;

Table truncated.

SQL> select \* from student;

no rows selected

SQL> drop table student;

Table dropped.

SQL> spool off

**Program 1(b):-Write the queries for Data Manipulation Language (DML) in RDBMS**

SQL> connect system

Connected.

SQL> create table student(Name varchar2(20), RollNo number(10), Branch varchar2(10));

Table created.

SQL> insert into student values('&Name', '&RollNo', '&Branch');

Enter value for name: Riya

Enter value for rollno: 1

Enter value for branch: CSE

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Riya', '1', 'CSE')

1 row created.

SQL> /

Enter value for name: Siya

Enter value for rollno: 2

Enter value for branch: IT

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Siya', '2', 'IT')

1 row created.

SQL> /

Enter value for name: Aditya

Enter value for rollno: 3

Enter value for branch: EE

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Aditya', '3', 'EE')

1 row created.

SQL> /

Enter value for name: Abhi

Enter value for rollno: 4

Enter value for branch: ECE

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Abhi', '4', 'ECE')

1 row created.

SQL> /

Enter value for name: Pooja

Enter value for rollno: 5

Enter value for branch: ME

old 1: insert into student values('&Name', '&RollNo', '&Branch')

new 1: insert into student values('Pooja', '5', 'ME')

1 row created.

SQL> update student set RollNo=6 where Name='Pooja';

1 row updated.

SQL> select \* from student;

NAME ROLLNO BRANCH

-------------------- ---------- ----------

Riya 1 CSE

Siya 2 IT

Aditya 3 EE

Abhi 4 ECE

Pooja 6 ME

SQL> delete from student where Name='Pooja';

delete from student where Name='Pooja'

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> delete from student where Name='Pooja';

1 row deleted.

SQL> select \* from student;

NAME ROLLNO BRANCH

-------------------- ---------- ----------

Riya 1 CSE

Siya 2 IT

Aditya 3 EE

Abhi 4 ECE

SQL> spool off;

**Program 2(a):- Write the queries for Data Control Language (DCL) in RDBMS**

SQL> connect system

Connected.

SQL> create user Pual identified by Marshal;

User created.

SQL> connect Pual

ERROR:

ORA-01045: user PUAL lacks CREATE SESSION privilege; logon denied

Warning: You are no longer connected to ORACLE.

SQL> connect system

Connected.

SQL> grant connect to Pual;

Grant succeeded.

SQL> connect Pual

Connected.

SQL> select \* from tab;

no rows selected

SQL> create table temp(SNo number(3));

create table temp(SNo number(3))

\*

ERROR at line 1:

ORA-01031: insufficient privileges

SQL> connect system

Connected.

SQL> grant create table to Pual;

Grant succeeded.

SQL> grant resource to Pual;

Grant succeeded.

SQL> connect Pual;

Connected.

SQL> create table temp(SNo number(3));

Table created.

SQL> select \* from tab;

TNAME TABTYPE CLUSTERID

------------------------------ ------- ----------

TEMP TABLE

SQL> connect system

Connected.

SQL> revoke resource from Pual;

Revoke succeeded.

SQL> spool off;

**Program 2(b):- Write queries to perform various integrity constraints on relational database**

SQL> connect system

Enter password:

Connected.

SQL> create table temp(SNo number(3) PRIMARY KEY, Name varchar(10));

Table created.

SQL> drop table temp;

Table dropped.

SQL> create table temp(SNo number(3) constraint pri\_k PRIMARY KEY, Name varchar(10));

Table created.

SQL> desc temp

Name Null? Type

----------------------------------------- -------- ----------------------------

SNO NOT NULL NUMBER(3)

NAME VARCHAR2(10)

SQL> alter table temp drop constraint pri\_k;

Table altered.

SQL> desc temp;

Name Null? Type

----------------------------------------- -------- ----------------------------

SNO NUMBER(3)

NAME VARCHAR2(10)

SQL> select \* from temp;

no rows selected

SQL> alter table temp add constraint pri\_k(SNo);

alter table temp add constraint pri\_k(SNo)

\*

ERROR at line 1:

ORA-00904: : invalid identifier

SQL> alter table temp add primary key(SNO);

Table altered.

SQL> drop table temp;

Table dropped.

SQL> alter table temp add constraint pri\_k primary key(SNO);

alter table temp add constraint pri\_k primary key(SNO)

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> create table temp(SNo number(3), Name varchar(10));

Table created.

SQL> alter table temp add constraint pri\_k primary key(SNO);

Table altered.

SQL> drop table temp;

Table dropped.

SQL> create table temp(SNo number(3), Name varchar(10), primary key(SNO));

Table created.

SQL> desc temp;

Name Null? Type

----------------------------------------- -------- ----------------------------

SNO NOT NULL NUMBER(3)

NAME VARCHAR2(10)

SQL> insert into temp values('&SNO', '&Name');

Enter value for sno: 1

Enter value for name: A

old 1: insert into temp values('&SNO', '&Name')

new 1: insert into temp values('1', 'A')

1 row created.

SQL> /

Enter value for sno: 2

Enter value for name: B

old 1: insert into temp values('&SNO', '&Name')

new 1: insert into temp values('2', 'B')

1 row created.

SQL> /

Enter value for sno: 3

Enter value for name: C

old 1: insert into temp values('&SNO', '&Name')

new 1: insert into temp values('3', 'C')

1 row created.

SQL> /

Enter value for sno: 4

Enter value for name: D

old 1: insert into temp values('&SNO', '&Name')

new 1: insert into temp values('4', 'D')

1 row created.

SQL> select \* from temp;

SNO NAME

---------- ----------

1 A

2 B

3 C

4 D

SQL> insert into temp values('&SNO', '&Name');

Enter value for sno: 2

Enter value for name: F

old 1: insert into temp values('&SNO', '&Name')

new 1: insert into temp values('2', 'F')

insert into temp values('2', 'F')

\*

ERROR at line 1:

ORA-00001: unique constraint (SYSTEM.SYS\_C004063) violated

SQL> create table temp\_child(SRNO number(3), Course varchar(10),constraint fk foreign key(SRNO) references temp(SNO));

Table created.

SQL> insert into temp\_child values('&SRNO', '&Course');

Enter value for srno: 2

Enter value for course: CSE

old 1: insert into temp\_child values('&SRNO', '&Course')

new 1: insert into temp\_child values('2', 'CSE')

1 row created.

SQL> /

Enter value for srno: 3

Enter value for course: IT

old 1: insert into temp\_child values('&SRNO', '&Course')

new 1: insert into temp\_child values('3', 'IT')

1 row created.

SQL> /

Enter value for srno: 2

Enter value for course: ME

old 1: insert into temp\_child values('&SRNO', '&Course')

new 1: insert into temp\_child values('2', 'ME')

1 row created.

SQL> select \* from temp\_child;

SRNO COURSE

---------- ----------

2 CSE

3 IT

2 ME

SQL> select \* from temp;

SNO NAME

---------- ----------

1 A

2 B

3 C

4 D

SQL> insert into temp\_child values('&SRNO', '&Course');

Enter value for srno: 5

Enter value for course: EE

old 1: insert into temp\_child values('&SRNO', '&Course')

new 1: insert into temp\_child values('5', 'EE')

insert into temp\_child values('5', 'EE')

\*

ERROR at line 1:

ORA-02291: integrity constraint (SYSTEM.FK) violated - parent key not found

SQL> drop table temp\_child;

Table dropped.

SQL> drop table temp;

Table dropped.

SQL> spool off

**Program 3:- Create a database and perform the following operations:-**

**a. Arithmetic and Relational operations**

**b. Group by &amp; having clauses**

**c. Like predicate for pattern matching in database**

(a)SQL> create table Emp(EmpID number(10), EmpName varchar2(20), Salary number(10), Bonus number(10));

Table created.

SQL> insert into Emp values('&EmpID','&EmpName','&Salary','&Bonus');

Enter value for empid: 1

Enter value for empname: Ajay

Enter value for salary: 1000

Enter value for bonus: 100

old 1: insert into Emp values('&EmpID','&EmpName','&Salary','&Bonus')

new 1: insert into Emp values('1','Ajay','1000','100')

1 row created.

SQL> /

Enter value for empid: 2

Enter value for empname: Rahul

Enter value for salary: 1500

Enter value for bonus: 200

old 1: insert into Emp values('&EmpID','&EmpName','&Salary','&Bonus')

new 1: insert into Emp values('2','Rahul','1500','200')

1 row created.

SQL> /

Enter value for empid: 3

Enter value for empname: Simran

Enter value for salary: 4000

Enter value for bonus: 190

old 1: insert into Emp values('&EmpID','&EmpName','&Salary','&Bonus')

new 1: insert into Emp values('3','Simran','4000','190')

1 row created.

SQL> select \* from Emp;

EMPID EMPNAME SALARY BONUS

---------- -------------------- ---------- ----------

1 Ajay 1000 100

2 Rahul 1500 200

3 Simran 4000 190

SQL> select EmpName,Salary,Bonus,(Salary+Bonus) from Emp where(Salary+Bonus)>1000;

EMPNAME SALARY BONUS (SALARY+BONUS)

-------------------- ---------- ---------- --------------

Ajay 1000 100 1100

Rahul 1500 200 1700

Simran 4000 190 4190

SQL> select EmpName,Salary,Bonus,(Salar-Bonus) from Emp where Salary>1000;

select EmpName,Salary,Bonus,(Salar-Bonus) from Emp where Salary>1000

\*

ERROR at line 1:

ORA-00904: "SALAR": invalid identifier

SQL> select EmpName,Salary,Bonus,(Salary-Bonus) from Emp where Salary>1000;

EMPNAME SALARY BONUS (SALARY-BONUS)

-------------------- ---------- ---------- --------------

Rahul 1500 200 1300

Simran 4000 190 3810

SQL> select EmpID,EmpName from Emp where Salary>1000 AND Bonus>100;

EMPID EMPNAME

---------- --------------------

2 Rahul

3 Simran

SQL> spool off

SQL> select \* from people;

GENDER

----------

female

female

male

female

male

male

male

male

8 rows selected.

SQL> select gender from people GROUP BY gender;

GENDER

----------

male

female

SQL> spool off

SQL> select \* from Emp;

EMPID EMPNAME SALARY BONUS

---------- -------------------- ---------- ----------

1 Ajay 1000 100

2 Rahul 1500 200

3 Simran 4000 190

SQL> select \* from Emp where EmpName like 'S%';

EMPID EMPNAME SALARY BONUS

---------- -------------------- ---------- ----------

3 Simran 4000 190

SQL> select EmpName||Salary from Emp;

EMPNAME||SALARY

------------------------------------------------------------

Ajay1000

Rahul1500

Simran4000

SQL> select \* from Emp where EmpName like 'S%' or Salary>1000;

EMPID EMPNAME SALARY BONUS

---------- -------------------- ---------- ----------

2 Rahul 1500 200

3 Simran 4000 190

SQL> spool off

**Program 4:- Write SQL query using character, number, date and group functions**

SQL> select \* from employee;

EMPNO ENAME DESIGNATIO SALARY DEPTNO

---------- ---------- ---------- ---------- ----------

101 pavneet radour 20000 48

102 parul karnal 3000 47

SQL> select concat(ename,salary) from employee;

CONCAT(ENAME,SALARY)

--------------------------------------------------

pavneet20000

parul3000

SQL> select substr(ename,1,3) from employee;

SUB

---

pav

par

SQL> select instr(ename,'v') from employee;

INSTR(ENAME,'V')

----------------

3

0

SQL> select rpad(ename,10,'\_') from employee;

RPAD(ENAME

----------

pavneet\_\_\_

parul\_\_\_\_\_

SQL> select lpad(ename,10,'\_') from employee;

LPAD(ENAME

----------

\_\_\_pavneet

\_\_\_\_\_parul

SQL> select rtrim('avn') as ename from employee;

ENA

---

avn

avn

SQL> select upper(ename) from employee;

UPPER(ENAME)

----------

PAVNEET

PARUL

SQL> select abs(salary) from employee;

ABS(SALARY)

-----------

20000

3000

SQL> select ceil(salary) from employee;

CEIL(SALARY)

------------

20000

3000

SQL> select mod(salary,deptno) from employee;

MOD(SALARY,DEPTNO)

------------------

32

39

SQL> select sign(salary) from employee;

SIGN(SALARY)

------------

1

1

SQL> select sqrt(salary) from employee;

SQRT(SALARY)

------------

141.421356

54.7722558

SQL> select add\_months('13-oct-16',3) from employee;

ADD\_MONTH

---------

13-JAN-17

13-JAN-17

SQL> select count(\*) from employee;

COUNT(\*)

----------

2

SQL> select distinct empno from employee;

EMPNO

----------

102

101

SQL> select max(salary) from employee;

MAX(SALARY)

-----------

20000

SQL> select sum(salary) from employee;

SUM(SALARY)

-----------

23000

**Program 5:- Write SQL Queries for Relational Algebra.**

SQL> select \* from A;

ROLLNO NAME AGE

---------- ---------- ----------

1 Ram 20

2 Shyam 21

3 Ram 19

SQL> -- PROJECTION OPERATION

SQL> select rollno from A;

ROLLNO

----------

1

2

3

SQL> -- SELECTION OPERATION

SQL> select name from A where rollno = 2;

NAME

----------

Shyam

SQL> -- RENAME OPERATION

SQL> select rollno as Roll\_number from A;

ROLL\_NUMBER

-----------

1

2

3

SQL> select \* from first;

ID NAME

---------- ----------

1 Jack

2 Harry

3 Jackson

SQL> select \* from second;

ID NAME

---------- ----------

3 Jackson

4 Stephen

5 David

SQL> -- UNION OPERATION

SQL> select \* from first UNION select \* from second;

ID NAME

---------- ----------

1 Jack

2 Harry

3 Jackson

4 Stephen

5 David

SQL> select \* from first UNION ALL select \* from second;

ID NAME

---------- ----------

1 Jack

2 Harry

3 Jackson

3 Jackson

4 Stephen

5 David

6 rows selected.

SQL> -- INTERSECTION OPERATION

SQL> select \* from first INTERSECT select \* from second;

ID NAME

---------- ----------

3 Jackson

SQL> -- MINUS OPERATION

SQL> select \* from first MINUS select \* from second;

ID NAME

---------- ----------

1 Jack

2 Harry

SQL> select \* from A

2 ;

ROLLNO NAME AGE

---------- ---------- ----------

1 Ram 20

2 Shyam 21

3 Ram 19

SQL> select \* from B;

ROLLNO SUBJECT HOBBY

---------- ---------- ----------

2 Hindi Singing

3 English Dancing

4 English Writing

SQL> -- CROSS JOIN

SQL> select \* from A CROSS JOIN B;

ROLLNO NAME AGE ROLLNO SUBJECT HOBBY

---------- ---------- ---------- ---------- ---------- ----------

1 Ram 20 2 Hindi Singing

1 Ram 20 3 English Dancing

1 Ram 20 4 English Writing

2 Shyam 21 2 Hindi Singing

2 Shyam 21 3 English Dancing

2 Shyam 21 4 English Writing

3 Ram 19 2 Hindi Singing

3 Ram 19 3 English Dancing

3 Ram 19 4 English Writing

9 rows selected.

SQL> select \* from emp;

ENO ENAME ADDRESS

---------- ---------- ----------

1 Ram Delhi

2 Varun Chd

3 Ravi Chd

4 Amrit Delhi

SQL> select \* from dept;

DEPNO NAME ENO

----- ---------- ----------

D1 HR 1

D2 IT 2

D3 MRKT 4

SQL> -- NATURAL JOIN

SQL> select ename from emp NATURAL JOIN dept;

ENAME

----------

Ram

Varun

Amrit

SQL> spool off;

**PROGRAM 6:- Write SQL queries for extracting data from more than one table**

SQL> select \* from A;

ROLLNO NAME AGE

---------- ---------- ----------

1 Ram 20

2 Shyam 21

3 Ram 19

SQL> select \* from B;

ROLLNO SUBJECT HOBBY

---------- ---------- ----------

2 Hindi Singing

3 English Dancing

4 English Writing

SQL> -- CROSS JOIN

SQL> select \* from A CROSS JOIN B;

ROLLNO NAME AGE ROLLNO SUBJECT HOBBY

---------- ---------- ---------- ---------- ---------- ----------

1 Ram 20 2 Hindi Singing

1 Ram 20 3 English Dancing

1 Ram 20 4 English Writing

2 Shyam 21 2 Hindi Singing

2 Shyam 21 3 English Dancing

2 Shyam 21 4 English Writing

3 Ram 19 2 Hindi Singing

3 Ram 19 3 English Dancing

3 Ram 19 4 English Writing

9 rows selected.

SQL> select \* from emp;

ENO ENAME ADDRESS DEPNO

---------- ---------- ---------- ----------

1 Ram Delhi D1

2 Varun Chd D2

3 Ravi Chd D3

4 Amrit Delhi

SQL> select \*from dept;

DEPNO NAME ENO LOCATION

----- ---------- ---------- ----------

D1 HR 1 Delhi

D2 IT 2 Pune

D3 MRKT 4 Patna

D4 Finance 5

SQL> select ename from emp NATURAL JOIN dept;

ENAME

----------

Ram

Varun

SQL> -- EQUI JOIN

SQL> SELECT ename from emp, dept where emp.eno = dept.eno and emp.address = dept.location;

ENAME

----------

Ram

SQL> select \* from study;

S\_ID C\_ID SINCE\_YEAR

----- ----- ----------

S1 C1 2016

S2 C2 2017

S1 C2 2017

SQL> -- SELF JOIN

SQL> select t1.s\_id from study t1, study t2 where t1.s\_id = t2.s\_id and t1.c\_id<>t2.c\_id;

S\_ID

-----

S1

S1

SQL> SELECT \* from students;

ROLL\_NO NAME ADDRESS AGE

---------- ---------- ---------- ----------

1 HARSH DELHI 18

2 PRATIK BIHAR 19

3 RIYANKA SILIGURI 20

4 DEEP RAMNAGAR 18

5 SAPTARHI KOLKATA 19

6 DHANRAJ BARABAJAR 20

7 ROHIT BALURGHAT 18

8 NIRAJ ALIPUR 19

8 rows selected.

SQL> SELECT \* from studentscourse;

COURSE\_ID ROLL\_NO

---------- ----------

1 1

2 2

2 3

3 4

1 5

4 9

5 10

4 11

8 rows selected.

SQL> -- LEFT OUTER JOIN

SQL> select students.name,studentscourse.course\_id FROM students LEFT JOIN studentscourse ON studentscourse.roll\_no = students.roll\_no;

NAME COURSE\_ID

---------- ----------

HARSH 1

PRATIK 2

RIYANKA 2

DEEP 3

SAPTARHI 1

NIRAJ

DHANRAJ

ROHIT

8 rows selected.

SQL> select students.name, studentscourse.course\_id FROM students RIGHT JOIN studentscourse ON studentscourse.roll\_no = students.roll\_no;

NAME COURSE\_ID

---------- ----------

HARSH 1

PRATIK 2

RIYANKA 2

DEEP 3

SAPTARHI 1

5

4

4

8 rows selected.

SQL> -- FULL OUTER JOIN

SQL> SELECT students.name, studentscourse.course\_id FROM students FULL JOIN studentscourse ON studentscourse.roll\_no = students.roll\_no;

NAME COURSE\_ID

---------- ----------

HARSH 1

PRATIK 2

RIYANKA 2

DEEP 3

SAPTARHI 1

NIRAJ

DHANRAJ

ROHIT

5

4

4

11 rows selected.

SQL> spool off;

**Program 7:- Write SQL queries for sub queries, nested queries**

SQL> select \* from stud;

NAME ROLLNO MOBILE MARKS

---------- ---------- ---------- ----------

muskie 240 987766576 95

munni 237 859656345 76

pnni 251 986756453 77

nidhi 244 858578698 87

SQL> select \* from stud where rollno in (select rollno from stud where marks>85);

NAME ROLLNO MOBILE MARKS

---------- ---------- ---------- ----------

muskie 240 987766576 95

nidhi 244 58578698 87

SQL> create table stud\_bck (name varchar(10), rollno number(10), mobile number(10), marks number(5));

Table created.

SQL> insert into stud\_bck select \* from stud where rollno in (select rollno from stud);

4 rows created.

SQL> select \* from stud\_bck;

NAME ROLLNO MOBILE MARKS

---------- ---------- ---------- ----------

muskie 240 987766576 95

munni 237 859656345 76

pnni 251 986756453 77

nidhi 244 858578698 87

SQL> update stud set marks=marks-5 where rollno in(select rollno from stud\_bck where rollno>239);

3 rows updated.

SQL> select \* from stud\_bck;

NAME ROLLNO MOBILE MARKS

---------- ---------- ---------- ----------

muskie 240 987766576 95

munni 237 859656345 76

pnni 251 986756453 77

nidhi 244 858578698 87

SQL> select \* from stud;

NAME ROLLNO MOBILE MARKS

---------- ---------- ---------- ----------

muskie 240 987766576 90

munni 237 859656345 76

pnni 251 986756453 72

nidhi 244 858578698 82

SQL> delete from stud where rollno in (select rollno from stud\_bck where rollno>=240);

3 rows deleted.

SQL> select \* from stud;

NAME ROLLNO MOBILE MARKS

---------- ---------- ---------- ----------

munni 237 59656345 76

SQL> select \* from stud\_bck;

NAME ROLLNO MOBILE MARKS

---------- ---------- ---------- ----------

muskie 240 987766576 95

munni 237 859656345 76

pnni 251 986756453 77

nidhi 244 858578698 87

SQL>spool off;

**Program 8:- Write an SQL query for rollback, commit, savepoint.**

SQL> create table com(name varchar(10),roll number(10));

Table created.

SQL> insert into com values('&name','&roll');

Enter value for name: rahul

Enter value for roll: 1217633

old 1: insert into com values('&name','&roll')

new 1: insert into com values('rahul','1217633')

1 row created.

SQL> /

Enter value for name: anshul

Enter value for roll: 1217216

old 1: insert into com values('&name','&roll')

new 1: insert into com values('anshul','1217216')

1 row created.

SQL> /

Enter value for name: sahil

Enter value for roll: 1217637

old 1: insert into com values('&name','&roll')

new 1: insert into com values('sahil','1217637')

1 row created.

SQL> select \* from com;

NAME ROLL

---------- ----------

rahul 1217633

anshul 1217216

sahil 1217637

SQL> savepoint a1;

Savepoint created.

SQL> insert into com values('ab','1717152');

1 row created.

SQL> rollback to a1;

Rollback complete.

SQL> select \* from com;

NAME ROLL

---------- ----------

rahul 1217633

anshul 1217216

sahil 1217637

SQL> spool off;

**Program 9(a):- Create Views , Cursors and TR.**

SQL> create table student111(rollno number(10),name varchar(15),branch varchar(10),marks number(10));

Table created.

SQL> insert into student111 values('&rollno','&name','&branch','&marks');

Enter value for rollno: 1221

Enter value for name: sejal

Enter value for branch: CSE

Enter value for marks: 89

old 1: insert into student111 values('&rollno','&name','&branch','&marks')

new 1: insert into student111 values('1221','sejal','CSE','89')

1 row created.

SQL> /

Enter value for rollno: 1542

Enter value for name: mohit

Enter value for branch: IT

Enter value for marks: 97

old 1: insert into student111 values('&rollno','&name','&branch','&marks')

new 1: insert into student111 values('1542','mohit','IT','97')

1 row created.

SQL> /

Enter value for rollno: 1735

Enter value for name: Vikas

Enter value for branch: MECH

Enter value for marks: 92

old 1: insert into student111 values('&rollno','&name','&branch','&marks')

new 1: insert into student111 values('1735','Vikas','MECH','92')

1 row created.

SQL> select\*from student111;

ROLLNO NAME BRANCH MARKS

---------- --------------- ---------- ----------

1221 sejal CSE 89

1542 mohit IT 97

1735 Vikas MECH 92

SQL> insert into student111 values(1432,'sahil','CHEMICAL',61);

1 row created.

SQL> select\*from student111;

ROLLNO NAME BRANCH MARKS

---------- --------------- ---------- ----------

1221 sejal CSE 89

1542 mohit IT 97

1735 Vikas MECH 92

1432 sahil CHEMICAL 61

SQL> create table emp1(empid number(10),dept varchar(15));

Table created.

SQL> insert into emp1 values('&empid','&dept');

Enter value for empid: 1221

Enter value for dept: CSE

old 1: insert into emp1 values('&empid','&dept')

new 1: insert into emp1 values('1221','CSE')

1 row created.

SQL> /

Enter value for empid: 1542

Enter value for dept: IT

old 1: insert into emp1 values('&empid','&dept')

new 1: insert into emp1 values('1542','IT')

1 row created.

SQL> /

Enter value for empid: 1432

Enter value for dept: CHEMICAL

old 1: insert into emp1 values('&empid','&dept')

new 1: insert into emp1 values('1432','CHEMICAL')

1 row created.

SQL> select\*from emp1;

EMPID DEPT

---------- ---------------

1221 CSE

1542 IT

1432 CHEMICAL

SQL> select student111.rollno,student111.name,student111.marks,emp1.dept from student111,emp1 where student111.rollno=emp1.empid;

ROLLNO NAME MARKS DEPT

---------- --------------- ---------- ---------------

1221 sejal 89 CSE

1542 mohit 97 IT

1432 sahil 61 CHEMICAL

SQL> create view V as select rollno,name from student111;

View created.

SQL> select\*from V;

ROLLNO NAME

---------- ---------------

1221 sejal

1542 mohit

1735 Vikas

1432 sahil

SQL> create view v11 as select student111.rollno,student111.name,emp1.dept from student111,emp1 where branch='CSE';

View created.

SQL> select\*from v11;

ROLLNO NAME DEPT

---------- --------------- ---------------

1221 sejal CSE

1221 sejal IT

1221 sejal CHEMICAL

SQL> create view v23 as select student111.name,emp1.dept from student111,emp1 where student111.rollno=emp1.empid;

View created.

SQL> select\*from v23;

NAME DEPT

--------------- ---------------

sejal CSE

mohit IT

sahil CHEMICAL

SQL> spool off;

**Program 10:- Write SQL queries to make procedure to find area of circle and insert in a table.**

SQL> create table ar(radius number(10),area number(12));

Table created.

SQL> create or replace procedure pro(radius in number) is

2 r number(10);

3 area number(10);

4 begin

5 r:=radius;

6 area:=3.14\*r\*r;

7 insert into ar values(radius,area);

8 end;

9 /

Procedure created.

SQL> execute pro(7);

PL/SQL procedure successfully completed.

SQL> select \* from ar;

RADIUS AREA

---------- ----------

7 154

SQL> execute pro(3);

PL/SQL procedure successfully completed.

SQL> select \* from ar;

RADIUS AREA

---------- ----------

7 154

3 28

SQL> spool off;