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## **Department**

of

**COMPUTER SCIENCE AND ENGINEERING** 

# LABORATORY REPORT

## [22UCSC501-DATABASE MANAGEMENT SYSTEMS]

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- Termwork-1: Create a data model for the given business scenario and prepare a schema in 3NF. Using the appropriate SQL statement insert the data to check or validate the following Integrity constraints.
  - a. Row Integrity
  - b. Entity Integrity
  - c. Referential Integrity

#### **Problem statement:**

- 1. Creating the Employee table
- 2. Creating the Project table
- 3. Creating the Assigned\_to table

#### **Program:**

);

1. Creating the Employee table:

```
Create table employee(
empno integer not null,
constraint EMP_PK_VIOL
primary key,
empname char(20) not null,
sex char(1) not null
constraint GENDER_VIOL_EMP
check(sex in ('m', 'f')),
phone integer null,
dob date not null
```

E	EMPNO EMPNAME		S	PHONE DOB
	10 Joy	m	12344	01-JAN-04
	1 Gagan	m	23445	29-MAY-04
	2 TARUN	m	653656	04-APR-90
	3 Darshan	m	533	20-JUL-10

## 2. Creating the Project table

```
create table project(
      projectno integer not null,
      projectname char(20) not null,
      chiefarchitect char(20) default 'upk' not null,
      constraint PROJECT_PK_VIOL
      primary key(projectno)
);
```

#### PROJECTNO PROJECTNAME CHIEFARCHITECT

1 Google lens pratham

5 Micro upk

2 DBMS upk

3 Portal Joy

## 3. Creating the table Assigned\_to

```
create table assigned_to(
  empNo integer not null,
   projectNo integer not null,
   constraint ASSIGNED_TO_PK_VIOLATION
   primary key(empno, projectno),
   constraint ASSIGNED_TO_EMP_VIOLATION
   foreign key (empno)
   references employee,
   constraint ASSIGNED_TO_FK_PRJ_VIOLATION
   foreign key(projectno)
   references project
   );
```

1 2	
3 1	
3 2	
3 3	
3 4	
3 5	
Termwork-2: Write SQL Queries for the following:  a. Write a SQL statement to obtain the employee no who is working of Query:  select empno	on project 1
from assigned_to	
where projectno=1;	
O/P: EMPNO	
3	
b. Write a SQL statement to get the details of all the employees work  1 Query:     select e.*     from employee e, assigned_to at     where at.projectno=1 and e.empno = at.empno;	ing on project no
O/P: EMPNO EMPNAME S PHONE DOB	
3 Darshan m 533 20-JUL-10	

EMPNO PROJECTNO

c. Write a SQL statement to get the details of employees working on 'DBMS' Project Query:

select e.\* from
employee e, assigned\_to at, project p
where p.projectname='DBMS' and e.empno = at.empno and p.projectno =
at.projectno;

O/P:

EMPNO EMPNAME		S	PHONE DOB		
	1	Gagan	m	23445	29-MAY-04
	3	Darshan	m	533	20-JUL-10

d. Write a SQL statement to get the details of the employee working on the project 1 and 2.

Query:

select e.\*

from employee e, assigned\_to at, project p

where e.empno=at.empno and at.projectno=p.projectno and at.projectno=1 intersect select e.\* from employee e, assigned\_to at, project p where e.empno=at.empno and at.projectno=p.projectno and at.projectno=2;

O/P:

EMPNO EMPNAME			S	PHONE DOB	
	3	Darshan	m	533 20-3	JUL-10

e. Write a SQL statement to get the details of employees working on projects 1 or 2. Query:

```
select e.*, p.projectname
from employee e, assigned_to at, project p
where (at.projectno = 1 or at.projectno = 2) and e.empno = at.empno and
p.projectno = at.projectno;
```

EMPNO EMPNAME S PHONE DOB

1 Gagan m 23445 29-MAY-04
3 Darshan m 533 20-JUL-10
3 Darshan m 533 20-JUL-10

Termwork - 3: Prepare a modified schema to store the information about fine to be paid by each employee.

## Query:

```
create table EMPFINE(
empno int not null,
fine int not null,
constraint EMPNO_FK_ERR
foreign key(empno) references employee(empno)
);
```

#### O/P:

EMP	NO	FINE
2	30	0
1	300	00
1	10	0
3	60	0
3	60	0

Termwork-4: Modify the schema to store the information about the dependents of each employee if exists.

#### Query:

create table EMPDEP( empno int not null,

```
dName char(30) not null,
dpRelation char(1) not null,
constraint DEP_EMP_RELATION_CHECK
check (dpRelation in ('m', 'f')),
constraint EMP_FK_VIOLATION
foreign key(empno) references employee(empno)
);
```

CUSTID	DEPNAME
1	Harish
1	Manoi

Tarun

## Termwork-5: Study the following:

3

## Creating the temporary table Student:

ROLLNO
62
58
63
61

## 1. Updating the rows:

## Query:

SQL> update student set name='Prateek Pandarikar' where rollno=62;

#### O/P:

NAME	ROLLNO
Prateek Pandarikar	62
Prajwal	58
Pratham	63
Prasanna	61

1 row updated.

## 2. Deleting the rows of the table:

## Query

delete from student

where rollno=63;

#### O/P:

NAME	ROLLNO
Prateek Pandarikar	62
Prajwal Prasanna	58 61

## 3. Dropping the table:

## Query:

drop table student;

#### O/P:

TNAME	TABTYPE CLUSTERID
ASSIGNED_TO BIN\$Llq6YoFoSPuJLY	TABLE Y TABLE
EMPDEP	TABLE
EMPFINE	TABLE
EMPLOYEE	TABLE
PROJECT	TABLE

6 rows selected.

Termwork-6: Study the impact of deleting the rows and dropping the table on Referential integrity.

SQL> insert into student values('Jayanth', 3);

1 row created.

SQL> select \* from employee;

```
EMPNO EMPNAME
                            S
                                 PHONE DOB
    1 Gagan
                    m
                         23445 29-MAY-04
    2 TARUN
                          653656 04-APR-90
                  m
    3 Darshan
                           533 20-JUL-10
                    m
SQL> insert into employee values(10, 'Joy', 'm', 12344, '1-Jan-2004');
1 row created.
SQL> insert into student values('Joy', 10);
1 row created.
SQL> delete from employee where empno=10;
delete from employee where empno=10
ERROR at line 1:
ORA-02292: integrity constraint (22CS063.SYS_C00120091) violated - child record
found
Termwork-7: Display names of all the employees who are on bench.
Query:
     select empname, dob
     from employee
     where empno not in (
     select distinct empno from assigned_to
     );
O/P:
     EMPNAME
                       DOB
     TARUN
                     04-APR-90
                     01-JAN-04
     Joy
```

Termwork-8: Display names of all the employees working on the DBMS project. Query:

select empname, dob

from employee

where empno not in (select distinct empno from assigned\_to);

#### O/P:

EMPNAME	DOB		
TARUN	04-APR-90		
Joy	01-JAN-04		

Termwork-9: Display name of all the employees working on atleast on all the project that employee 1 is working.

## Query:

select empno

from assigned\_to group by empno

having count(distinct projectno) = (select count(\*) from project);

#### O/P:

EMPNO -----3

Termwork-10: Display the details of the top 3 senior employees Query:

```
Select * from (
Select * from employee
Order by dob
) where rownum <= 3;</pre>
```

```
name empid dob

Dinesh 1 2013-05-12
Rahul 6 2014-09-09
Naveen 3 2015-02-02
Jagadesh 4 2019-04-28
harish 2 2023-01-02
```

## Termwork-11: Find for each employee the penalty incurred.

Creating the EMPFINE table:

```
create table empfine(
   empid int,
   fine decimal(10, 2),
   foreign key(empid) references employee(empid)
);
```

EMPID	FINE
1	200
1	200
2	580
5	30
4	500
4	500
2	20

## Query:

select e.empid, name, NVL(fine, 0)
from employee e left join (select empid, sum(fine) fine from empfine f
group by f.empid) f
on f.empid = e.empid;

#### O/P:

EMPII	O NAME	NVL(FINE,0)
1	Raju	400
2	Naveen	600
5	Jay	30
4	Akshay	1000
3	Manas	0

Termwork-12: Display the count of the employees working on each project having count  $\geq$  3.

## Query:

select empno from assigned\_to
group by empno
having count(projectno) > 3;

## O/P:

EMPNO

-----

3

## Termwork-13: Study of Order by and Alter clause.

## 1. Order by Clause:

Printing the Junior most employees from top to bottom.

## Query:

Select \*

from employee1

order by dob DESC;

#### O/P:

## EMPID FINE

-----

- 1 200
- 1 200
- 2 580
- 5 30
- 4 500
- 4 500
- 2 20

#### 2. Alter Clause:

Adding the dob column in the employee table

## Query1:

Alter table employee add dob date not null;

#### O/P1:

#### EMPID NAME SALARY EMAIL

- 1 Raju 52.33
- 2 Naveen 2.33 -
- 4 Akshay 7.33
- 3 Manas 43.3
- 5 Jay 5

# Query2: Alter table employee drop column dob; O/P2: EMPID NAME SALARY Raju 52.33 1 Naveen 2.33 2 Akshay 7.33 4 3 Manas 43.3 Jay 5 5 Termwork-14: Study of statistical functions: 1. min (): Query: select min(fine) from empfine; O/P: MIN(FINE) 20

```
O/P:
      MAX(FINE)
           580
3. sum ():
Query:
      select sum(fine)
      from empfine;
O/P:
      SUM(FINE)
        2030
4. avg ():
Query:
      select avg(fine)
      from empfine;
O/P:
       AVG(FINE)
           290
5. STDDEV ():
Query:
      select stddev(fine)
      from empfine;
O/P:
```

```
STDDEV(FINE)
          234.301893
6. Variance ():
Query:
      select variance(fine)
     from empfine;
O/P:
        VARIANCE(FINE)
        54833. 3333
Termwork-15: Study of:
1. Between
Query:
      select *
     from employee1
      where dob between to_date('1-Jan-2013', 'DD-Mon-YYYY') and to_date('1-
      Jan-2018', 'DD-Mon-YYYY');
O/P:
      NAME
               EMPID DOB
      Dinesh 1 12-MAY-13
                3 02-FEB-15
      Naveen
      Rahul
                6 09-SEP-14
2. Like:
Query:
      select * from employee1
      where empname like 'J%';
```

EMPID	NAME	SALARY	
5	Jay	5	

3. All:

Query:

Printing the employees except the employee with max salary.

select \*

from employee1

where salary >= all (select salary from employee);

O/P:

EMPID NAME SALARY

1 Raju 52.33

4. Any:

Query:

Printing the employees except the employee with least salary.

select \*

from employee1

where salary > any (select salary from employee);

O/P:

## **EMPIDNAME SALARY**

-----

- 1 Raju 52.33
- 3 Manas 43.3
- 4 Akshay 7.33

```
5 Jay 5
5. In:
Query:
     Printing the employees working on the project 2 or 3.
     select e.*, at.pid
     from employee e, assigned_to at
     where e.empid = at.empid and pid in(2,3);
O/P:
     EMPID NAME SALARY PID
      1
            Raju
                    52.33
     2 Naveen 2.33 2
     2
        Naveen 2.33 3
6. Exists:
Query:
     select distinct(e.empid), e.*
     from employee e, assigned_to at
     where not exists(
       (select pid from assigned_to where empid=1)
       Minus
       (select pid from assigned_to at where e.empid = at.empid)
     );
O/P:
      EMPIDEMPID NAME
                               SALARY
      1 1
                     Raju 52.33
      2
             2
                     Naveen 2.33
```

```
7. Rownum:
Query:
     select * from
     (select * from employee order by dob)
      where rownum<=2;
O/P:
       EMPID NAME SALARY
       1
              Raju 52.33
       3
              Manas 43.3
8. Count:
Query:
     select count(*) from employee;
O/P:
      COUNT(*)
          5
Termwork-16: Study of Date related functions:
Query1:
     select to_char(to_date('12-Feb-2015', 'dd-Mon-YYYY'), 'DY')
     from dual;
O/P1:
      TO_CHAR(TO_DATE('12-FEB-2015','DD-MON-YYYY'),'DY')
      THU
```

```
Query2:
     select to_char(to_date('12-Feb-2015', 'dd-Mon-YYYY'), 'SYEAR')
     from dual;
O/P2:
       TO_CHAR(TO_DATE('12-FEB-2015','DD-MON-YYYY'),'SYEAR')
       TWENTY FIFTEEN
Query3:
     select ADD_MONTHS (to_date('12-Feb-2015', 'dd-Mon-YYYY'), 1)
     from dual;
O/P3:
       ADD_MONTHS (TO_DATE('12-FEB-2015','DD-MON-YYYY'), 1)
       12-MAR-2015
Query4:
     select months_between(to_date('12-Feb-2015', 'dd-Mon-YYYY'), to_date('19-
     Oct -2015', 'dd-Mon-YYYY')) Months_diff from dual;
O/P4:
       MONTHS_DIFF
       _____
       12-MAR-2015
Termwork-17: Study of Views
1. With check option:
Query1: Creating the view
     create view empview1 as (
     select * from employee where empid<3
     );
```

## Query2:

Select \*

from empview1;

## O/P2:

EM	PID	NAM	1E	SALARY
1	Raju	52.33	3	
2	Nave	en	2.33	

## Query3:

insert into empview1 values(9, 'Rohan', 25.2);

## O/P3:

EMPI	D NA	ME	SALARY
1	Raju	52.33	
2	Naveen	2.33	
4	Akshay	7.33	
3	Manas	43.3	
5	Jay	5	
9	Rohan	25.2	

## 2. Without Check Option:

## Query:

Create view empview2 as (select \* from employee);

EMPI	D NAM	E	SALARY
1	Raju	52.33	
2	Naveen	2.33	
4	Akshay	7.33	
3	Manas	43.3	
5	Jay	5	
9	Rohan	25.2	

Termwork-18: Study of Copying table and synonym

Copying table:

Query:

Create table employee2 as Select \* from employee;

## O/P:

<b>EMPID</b>	NAME	SALARY
1	Raju	52.33
2	Naveen	2.33
4	Akshay	7.33
3	Manas	43.3
5	Jay	5
9	Rohan	25.2

## Synonym:

Query1:

Create synonym emp2 for employee;

Query2:

select \* from emp2;

EMPID	NAME	SALARY
1	Raju	52.33
2	Naveen	2.33
4	Akshay	7.33
3	Manas	43.3
5	Jay	5
9	Rohan	25.2

```
Termwork-19: Study of PL SQL

Query1:
    declare
    sal decimal(10,2);
    empid int;
    begin
    select salary, empid into sal, empid
    from employee e
    where empid=3;
    dbms_output.put_line('employee salary is ' || sal);
    dbms_output.put_line('employee id is ' || empid);
```

#### O/P1:

employee salary is 43.3 employee id is 3

## Query2:

begin

end;

```
for i in 1..10 loop
      if(mod(i, 2) = 0) then
      dbms_output.put_line(i);
      end if;
      end loop;
      end;
O/P2:
      2
      4
      8
      10
Termwork-20: Study of Triggers:
Query1:
      Creating a Deleted_EMP table for storing the employees who are deleted from
      employee table.
      create or replace trigger employeeTrig
      after delete on employee1 for each row
      begin
             insert into deletedEmp values(:old.empno, :old.empname);
             dbms_output.put_line('done');
      end;
```

```
O/P1:
        EMPID NAME SALARY
        1
                 Raju 52.33
Query2:
      Adding the constraint to the assigned_to such that 1 employee can work on
only 3 projects.
      create or replace trigger assigned_toTrig
      before insert on assigned_to for each row
      declare
            projcount int;
      begin
            select count(distinct pid) into projeount from assigned_to at
            where :new.empid = at.empid;
            dbms_output.put_line(projcount);
            if(projCount >= 3) then
                RAISE_APPLICATION_ERROR(-20001, 'EMPLOYEE CANT
                WORK ON > 3 PROJECTS');
            end if;
      end;
      /
O/P2:
      Employee can't work on > 3 projects.
Termwork-21: Study of Stored procedures.
Query:
```

create or replace procedure findemployee(empid in number) as emprow employee%rowtype;

```
begin
          select * into emprow
          from employee e
          where e.empid = empid
          and rownum = 1;
          dbms_output.put_line('empname: ' || emprow.name);
          dbms_output.put_line('empno: ' || emprow.empid);
        exception
          when no_data_found then
            dbms_output.put_line('no employee found with empid: ' || empid);
          when too_many_rows then
            dbms_output.put_line('more than one employee found with empid: ' ||
      empid);
          when others then
           dbms_output.put_line('an error occurred: ' || sqlerrm);
      end;
O/P:
      exec findEmployee(2);
      statement processed.
      Empname: Raju
      Empno: 1
```

```
Termwork-22: Study for Stored functions
Query:
      create or replace function countEmployee
             return int is
             countemp int;
             begin
             select count(*) into countemp from employee;
             return countemp;
             end;
O/P:
      begin
             dbms output.put line('employee count = ' || countEmployee());
      end;
      Statement processed.
      employee count = 6
Termwork-23: Study of cursors:
Query:
      begin
      open empCursor;
      dbms output.put line('The employee names are:');
      loop
             fetch empCursor into empdetails;
             exit when empCursor%NOTFOUND;
             dbms_output.put_line(empdetails.name);
      end loop;
      close empCursor;
      end;
```

```
O/P:
```

Statement processed.

Raju

Naveen

Akshay

Manas

Jay

Rohan

## Termwork-24: Study of Transactions

Query and O/P 1:

Set autocommit off;

insert into employee1 values('Gagan',5,'3-April-2000');

select \* from employee1;

\_\_\_\_\_

Dinesh 1 2013-05-12

harish 2 2023-01-02

Naveen 3 2015-02-02

Jagadesh 4 2019-04-28

Gagan 5 0000-00-00

Rahul 6 2014-09-09

6 rows selected.

Rollback;

Select \* from employee1;

NAME EMPID DOB

-----

Dinesh 1 2013-05-12 harish 2 2023-01-02 Naveen 3 2015-02-02 Jagadesh 4 2019-04-28 6 2014-09-09 Rahul 5 rows selected. Query and O/P 2: delete from employee1 where empid=6; Query OK, 1 row affected (0.00 sec) savepoint s1; Query OK, 0 rows affected (0.00 sec) select \* from employee1; dob id name Dinesh 1 2013-05-12 harish 2 2023-01-02 Naveen 3 2015-02-02 4 2019-04-28 Jagadesh 4 rows selected. update employee1 set name = 'Praveen' where name='Naveen'; Query OK, 1 row affected (0.00 sec) Rows matched: 1 Changed: 1 Warnings: 0

select \* from employee1;

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```
NAME
         EMPID DOB
       1 2013-05-12
Dinesh
harish
         2 2023-01-02
          3 2015-02-02
Praveen
Jagadesh
          4 2019-04-28
4 rows selected.
rollback s1;
rollback to s1;
Query OK, 0 rows affected (0.00 sec)
select * from employee1;
NAME
         EMPID DOB
Dinesh 1 2013-05-12
harish 2 2023-01-02
          3 2015-02-02
Naveen
Jagadesh
          4 2019-04-28
4 rows selected.
```

Query OK, 0 rows affected (0.03 sec)

rollback;

## select \* from employee1;

NAME	EMPID DOB

Dinesh 1 2013-05-12

harish 2 2023-01-02

Naveen 3 2015-02-02

Jagadesh 4 2019-04-28

Rahul 6 2014-09-09

4 rows selected.

#### References:

- 1. https://www.w3schools.com/SQL/deFault.asp
- 2. <a href="https://www.geeksforgeeks.org/sql-tutorial/">https://www.geeksforgeeks.org/sql-tutorial/</a>