#### **EXPERIMENT – 1**

```
| C.V. |
```

#### **EXPERIMENT-2**

```
C:\WINDOWS\system32\cmd. X + v
                                                                                                                                               - 0 X
SQL> CREATE TABLE discounts4 (
 2 discount_id NUMBER,
 3 discount_name VARCHAR2(255) NOT NULL,
 4 amount NUMBER(3, 1) NOT NULL,
 5 start_date DATE NOT NULL,
 6 expired_date DATE NOT NULL
Table created.
SQL> INSERT INTO discounts4(discount_id, discount_name, amount, start_date, expired_date)
2 VALUES(1, 'Summer Promotion', 9.5, DATE '2023-09-10', DATE '2023-12-26');
1 row created.
SQL> DESC discounts4;
                                         Null? Type
Name
DISCOUNT_ID
                                                  NUMBER
DISCOUNT_NAME
                                         NOT NULL VARCHAR2(255)
AMOUNT
                                         NOT NULL NUMBER(3,1)
START_DATE
                                         NOT NULL DATE
EXPIRED_DATE
                                         NOT NULL DATE
```

#### **EXPERIMENT-3**

**Step – 1:** create student table

# Step − 2 : Insert few rows into student table

Step-3: Check whether rows are inserted or not

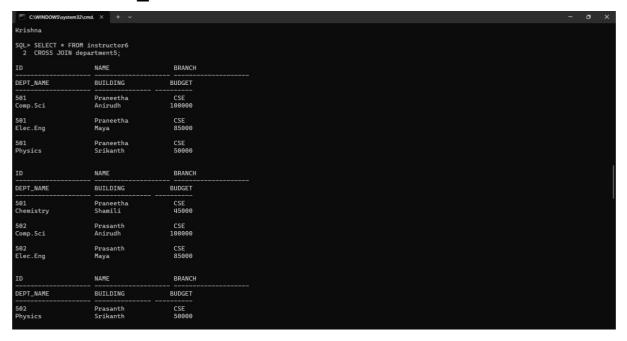
# Step-4: Create view of name teacher with name, roll number constraints and check whether rows are inserted or not

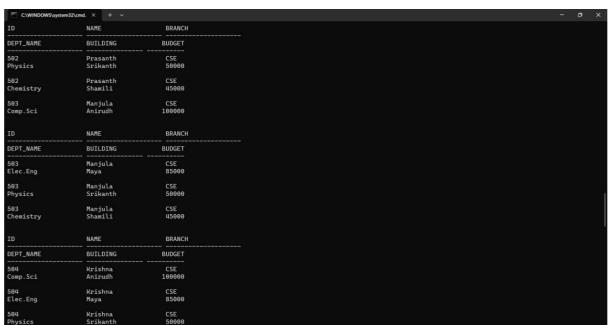
END **EXPERIMENT-4** 

# STEP-1: Create Instructor table and department table

#### STEP-2: Insert values into instructor table and department table

STEP-3: Perform RELATIONAL SET Operations





C:\WINDOWS\system	n32\cmd. × + v	
ID	NAME	BRANCH
DEPT_NAME	BUILDING	BUDGET
504 Chemistry	Krishna Shamili	CSE 45000
16 rows selected	l.	
SQL> SELECT * FR 2 NATURAL JOI	ROM instructor6 N department5;	
ID	NAME	BRANCH
DEPT_NAME	BUILDING	BUDGET
501 Comp.Sci	Praneetha Anirudh	CSE 100000
501 Elec.Eng	Praneetha Maya	CSE 85000
501 Physics	Praneetha Srikanth	CSE 50000
ID	NAME	BRANCH
DEPT_NAME	BUILDING	BUDGET
501 Chemistry	Praneetha Shamili	CSE 45000
502 Comp.Sci	Prasanth Anirudh	CSE 100000
502 Elec.Eng	Prasanth Maya	CSE 85000

C:\WINDOWS\syster	n32\cmd. × + v	
ID	NAME	BRANCH
DEPT_NAME	BUILDING	BUDGET
502 Physics	Prasanth Srikanth	CSE 50000
502 Chemistry	Prasanth Shamili	CSE 45000
503 Comp.Sci	Manjula Anirudh	CSE 100000
ID	NAME	BRANCH
DEPT_NAME	BUILDING	BUDGET
 503 Elec.Eng	Manjula Maya	CSE 85000
503 Physics	Manjula Srikanth	CSE 50000
503 Chemistry	Manjula Shamili	CSE 45000
ID	NAME	BRANCH
DEPT_NAME	BUILDING	BUDGET
504 Comp.Sci	Krishna Anirudh	CSE 100000
504 Elec.Eng	Krishna Maya	CSE 85000

**END** 

#### **EXPERIMENT-5**

#### Step-1: Create employee table

```
### Compression 18.8.22621.2735]

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C:\Users\dandursqip\usetassion 21.3.8.8.8

$QL*Plus: Release 21.8.8.8.9 - Production on Mon Dec 18 19:12:59 2023

Version 21.3.8.8.8

Copyright (c) 1982, 2021, Oracle. All rights reserved.

Enter user-name: system
Enter password:
Last Successful login time: Mon Dec 18 2023 18:49:56 +85:39

Connected to:
Oracle Database 21c Express Edition Release 21.8.8.8.9 - Production

Version 21.3.8.8.8

SQL PERST TABLE Emp1(
2 emp. ald int,
3 emp.name VARCHAR(20),
4 emp. salary int
5 );

Table created.

SQL> DESC Emp1;
Name.

Null? Type

EMP_ID

EMP_JAME

EMP_SALARY

NUMBER(33)

VARCHAR2(20)

NUMBER(33)

SQL> INSERT INTO Emp1 VALUES('1', 'Anil kumar', '1000000');
1 row created.

SQL> INSERT INTO Emp1 VALUES('1', 'Anil kumar', '198000');
1 row created.
```

Step-2: Insert few rows into the Employee table and check whether rows are selected or not

Step-3: Implement 5 aggregate operations

**END** 

#### **EXPERIMENT-6**

Step-1: Create student table and blocks table

```
Microsoft Windows [Version 18.8.22621.2861]
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C:\Users\dandu>sqlplus

SQL*Plus: Release 21.8.8.8.0 - Production on Tue Dec 19 16:57:26 2023

Version 21.3.8.8.0

Copyright (c) 1982, 2821, Oracle. All rights reserved.

Enter user-name: system
Enter passmord!

Enter user-name: system
Enter passmord!

Connected to:

Oracle Database 21c Express Edition Release 21.8.8.8.0 - Production

Version 21.3.8.8.0

SQL> CREATE TABLE student1(
2 roll_no NUMBER PRIMARY KEY,
3 name VARCHARZ(50) NOT NULL
5 );
Table created.

SQL> CREATE TABLE blocks1(
2 dept_name VARCHARZ(18) PRIMARY KEY,
3 block_name VARCHARZ(20) NOT NULL
4 );
Table created.

SQL> CREATE TABLE blocks1(
2 dept_name VARCHARZ(20) NOT NULL
4 );
Table created.

SQL> INSERT INTO student1 VALUES(519, 'GAYATRI', 'CSH');
1 row created.

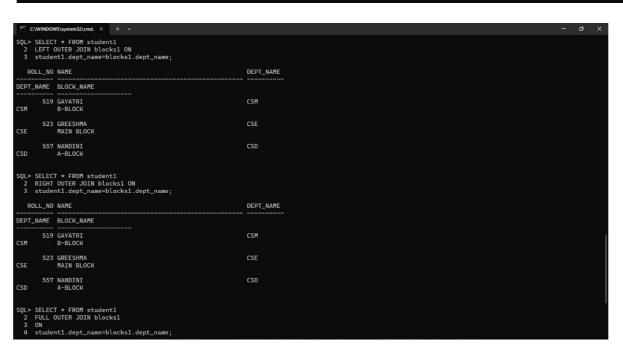
SQL> INSERT INTO student1 VALUES(523, 'GREESHMA', 'CSE');
1 row created.
```

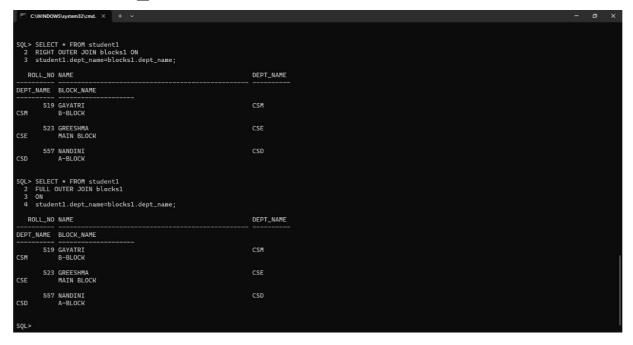
Step-2: Insert values into student and blocks table and check whether rows are inserted or not

```
SQL> INSERT INTO student1 VALUES(519, 'GAYATRI', 'CSM');
SQL> INSERT INTO student1 VALUES(523, 'GREESHMA', 'CSE');
SQL> INSERT INTO student1 VALUES(557, 'NANDINI', 'CSD');
1 row created.
SOL> SELECT * FROM student1:
 ROLL_NO NAME
                                                                   DEPT_NAME
       519 GAYATRI
523 GREESHMA
557 NANDINI
SQL> INSERT INTO blocks1 VALUES('CSM', 'B-BLOCK');
1 row created.
SQL> INSERT INTO blocks1 VALUES('CSE', 'MAIN BLOCK');
SQL> INSERT INTO blocks1 VALUES('CSD','A-BLOCK');
1 row created.
SQL> SELECT * FROM blocks1;
DEPT_NAME BLOCK_NAME
           B-BLOCK
MAIN BLOCK
A-BLOCK
```

Step-3: Perform JOIN OPERATIONS

```
| SQL> SELECT * FROM student1 | 2 JOIN blocks1 ON 3 student1 | 3 Stude
```





**END** 

#### **EXPERIMENT-7**

Step-1:Create Employee Table

```
Microsoft Windows (Version 18.0.22621.2861)
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C:\Users\dandu>sqlplus

SQL*Plus: Release 21.0.0.0.0 - Production on Tue Dec 19 18:18:46 2023

Version 21.3.0.0.0

Cnyright (c) 1982, 2021, Oracle. All rights reserved.

Enter user-name: system
Enter password:
Last Successful login time: Tue Dec 19 2023 16:57:35 +00:30

Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> CREATE TABLE employee1(
2 1D NURBER PRIMARY KEY,
3 name VARCHARZ(50) NOT NULL,
4 gender CHAR NOT NULL,
5 salary NUMBER(10,2) NOT NULL,
5 salary NUMBER(10,2) NOT NULL
6 );

Table created.

SQL> INSERT INTO employee1 VALUES(1, 'Anil Kumar', 'M', 100000);
1 row created.

SQL> INSERT INTO employee1 VALUES(3, 'Sudheer Kumar', 'M', 93000);
1 row created.

SQL> INSERT INTO employee1 VALUES(4, 'Vajaya Lakshmi', 'F', 90000);
```

Step-2: Insert values into Employee table and check whether rows are inserted or not



Step-3: Perform AGGREGATE OPERATIONS

```
SQL> SELECT AVG(salary) FROM employee1;

AVG(SALARY)
92600

SQL> SELECT COUNT(salary) FROM employee1;

COUNT(SALARY)
5

SQL> SELECT MIN(salary) FROM employee1;

MIN(SALARY)
85000

SQL> SELECT MAX(salary) FROM employee1;

MAX(SALARY)
100000

SQL> |
```

**END** 

#### **EXPERIMENT-8**

# Step-1: Create names table and insert values into names table

```
Microsoft Windows (Version 18.0.22621.2861]
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C:\Users\dandu>sqlplus

SQL+Plus: Release 21.0.0.0.0.0 - Production on Tue Dec 19 18:36:55 2023

Version 21.3.0.0.0

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Enter user-name: system
Enter password:
Last Successful login time: Tue Dec 19 2023 18:18:52 +05:30

Connected to:
Oracle Database 21.0 Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> (REATE TABLE names(
2 ' first_name VARCHARZ(30) NOT NULL,
3 last_name VARCHARZ(30) NOT NULL,
4 );

Table created.

SQL> INSERT INTO names VALUES('Narsha', 'Vardhan');
1 row created.

SQL> INSERT INTO names VALUES('Harsha', 'Vardhan');
1 row created.

SQL> INSERT INTO names VALUES('Harsha', 'Vardhan');
1 row created.

SQL> INSERT INTO names VALUES('Harsha', 'Vardhan');
1 row created.

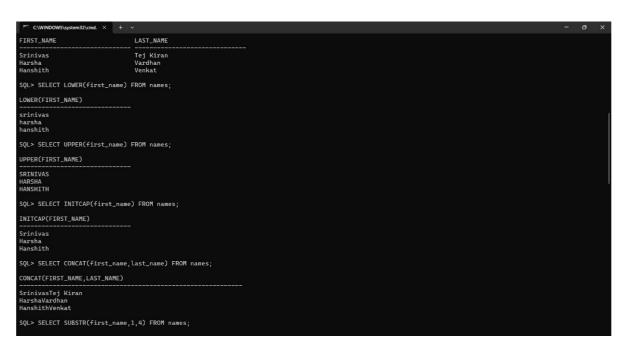
SQL> INSERT INTO names VALUES('Harsha', 'Vardhan');
1 row created.

SQL> INSERT INTO names VALUES('Hanshith', 'Venkat');
1 row created.

SQL> SELECT * FROM names;

FIRST_NAME LAST_MARE
```

# Step-2: Check whether rows are inserted or not



# Step-3: Perform ORACLE BUILT-IN FUNCTIONS (i.e. DATE, TIME)

```
FIRST_MAME LAST_MAME

Srinivas Tej Kiran
Harsha Vardhan
Venkat

SQL> SELECT LOWER(first_name) FROM names;

CONCAT(FIRST_NAME)

Srinivas
HARSHA
HARSHAH
```

#### **END**

#### **EXPERIMENT-9**

Create some tables and perform KEY CONSTRAINTS (i.e.

# 224G1A05B8\_VASAVI AKANKSHA E PRIMARY KEY, FOREIGN KEY, UNIQUE, NOT NULL, CHECK, DEFAULT)

```
Microsoft Windows [Version 10.0.22621.2861]
(c) Microsoft Corporation. All rights reserved.
 C:\Users\dandu>sqlplus
SQL*Plus: Release 21.0.0.0.0 - Production on Tue Dec 19 19:01:20 2023 Version 21.3.0.0.0
Copyright (c) 1982, 2021, Oracle. All rights reserved.
Enter user-name: system
Enter password:
Last Successful login time: Tue Dec 19 2023 18:37:02 +05:30
Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
SQL> CREATE TABLE student2(
2 ID NUMBER PRIMARY KEY,
3 first_name VARCHAR2(25) NOT NULL,
4 last_name VARCHAR2(25) NOT NULL
5 );
Table created.
SOL> INSERT INTO student2 VALUES(523.'SIDHU'.'POLISHETTY'):
1 row created.
SOL> INSERT INTO student2 VALUES(519.'ANVITHA'.'SHETTY'):
1 row created.
SOL> SELECT * FROM student2:
          ID FIRST_NAME
                                                   LAST_NAME
         523 SIDHU
519 ANVITHA
```

```
ID FIRST_NAME

LAST_NAME

523 SIDNU POLISHETTY
SHETTY

SOL> CREATE TABLE orders2(
2 id NUMBER PERTANEY KEY,
3 order_num NUMBER NOT NULL,
4 stud_id NUMBER REFERENCES stud(id)
5 );
CREATE TABLE orders2(
ERROR at Line 1:
ORA-00955: name is already used by an existing object

SOL> CREATE TABLE orders4(
2 id NUMBER PERTANEY KEY,
3 order_num NUMBER NOT NULL,
4 student2_id NUMBER REFERENCES student2(id)
5 );
Table created.

SOL> INSERT INTO orders4 VALUES(11,2,111);
INSERT INTO orders4 VALUES(11,2,111);
ERROR at Line 1:
ORA-029291: integrity constraint (SYSTEM.SYS_C008408) violated - parent key not found

SOL> INSERT INTO orders4 VALUES(2011,7,112);
ERROR at Line 1:
ORA-02291: integrity constraint (SYSTEM.SYS_C008408) violated - parent key not found
```



**END** 

### PL/SQL Program for

# calculating the factorial of given number

```
Last Successful login time: Tue Dec 19 2023 19:01:26 +05:30

Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
Version 21.3.0.0
Version 21.3.0
Version
```

for

# PL/SQL Program finding whether the given number is prime or not

# PL/SQL Program for

# displaying the Fibonacci series up to an

# integer

EXPERIMENT-13
for
END
PL/SQL Program to implement Stored Procedure on table.

```
| Commonwealthous | Park | Par
```

**END** 

Stored Function on table

PL/SQL procedure successfully completed.

# PL/SQL Program to implement

EXPERIMENT-16
PL/SQL Program to implement
1 Ly SQL 1 Togram to implement
END
Trigger on table

# PL/SQL Program to implement

EXPERIMENT-18
PL/SQL Program to implement
END
Cursor on table

# PL/SQL Program to implement

```
| Microsoft Windows (Version 10.0.22621.2861] (c) Microsoft Orporation. All rights reserved.

C:\Users\dandu-sqiplus
SQi.*Plus: Release 21.0.0.0.0 - Production on Tue Dec 19 21:36:03 2023
Version 21.3.0.0.0

City of the Company of
```

EXPERIMENT-20
PL/SQL Program to implement
END