DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

CHANDIGARH UNIVERSITY

Discover. Learn. Empower.

Experiment 1

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Subject Name: ADBMS

Subject Code: 23CSP-333

1. Experiment Name:

To design and manipulate a University Database using SQL that involves creating relations Tables for Students, Courses, Enrollments and Professors, inserting and retrieving data Using JOINs, managing access control with GRANT/REVOKE, and handling transactions Control using COMMIT and ROLLBACK.

2. Objective:

Easy-Level Problem

Problem Title: Author-Book Relationship Using Joins and Basic SQL Operations Procedure

(Step-by-Step):

Design two tables one for storing author details and the other for book details.

1. Ensure a foreign key relationship from the book to its respective author.

2. Insert at least three records in each table.

3. Code:

```
CREATE TABLE Author(
AUTH_ID INT PRIMARY KEY,
EMP_NAME VARCHAR(MAX),
COUNTRY VARCHAR(MAX)
)

create table book
(
BOOK_ID INT PRIMARY KEY,
BOOK_NAME VARCHAR(MAX),
AUTH__ID INT
FOREIGN KEY (AUTH__ID) REFERENCES Author(AUTH_ID)
)
INSERT INTO Author(AUTH_ID,EMP_NAME,COUNTRY) VALUES(70240,'Jayaprakash','Australia'),
(70293,'Bhanu','India'),(70265,'Karan','America')
INSERT INTO book(BOOK_ID,BOOK_NAME,AUTH__ID) VALUES(1,'MIssile',70240),(2,'Bomber',70293),(3,'The First Flight',70265)
truncate table book
SELECT* FROM Author
select* from Author as A
inner join
book as b on
b.BOOK_ID = A.AUTH_ID
```

7. Output:

	AUTH_ID	EMP_NAME	COUNTRY
1	70240	Jayaprakash	Australia
2	70265	Karan	America
3	70293	Bhanu	India

8. Learning Outcomes:

- Learnt to create table and insert data into table
- Learned to implement basic DDL,DML,DCL,DQL and other commands
- Learnt to use joins on tables