

Experiment – 1.3 : Create and open the database

Database Administration with Oracle Database 11g

Objective: The objective of this experiment is to create and manage a database using Oracle Database 11g, a popular relational database management system.

Experiment Steps:

1. Installation:

- Ensure that Oracle Database 11g is installed on your system. Follow Oracle's installation documentation and best practices for your specific operating system.

2. Create a New Database:

- Log in to the Oracle Database using SQL*Plus or another SQL client as a user with administrative privileges (e.g., "sys" or "system").
- Create a new database by executing SQL commands. For example:

```
CREATE DATABASE bookstore;
```

3. Define Tables and Schema:

- Create tables to define the database schema. For instance, let's create a "books" table:

```
CREATE TABLE books (  
  book_id NUMBER PRIMARY KEY,  
  title VARCHAR2(255),  
  author VARCHAR2(100),  
  publication_year NUMBER  
);
```

4. Insert Data:

- Populate the "books" table with sample data:

```
INSERT INTO books (book_id, title, author, publication_year)  
  VALUES (1, 'The Great Gatsby', 'F. Scott Fitzgerald', 1925);  
INSERT INTO books (book_id, title, author, publication_year)  
  VALUES (2, 'To Kill a Mockingbird', 'Harper Lee', 1960);
```

5. **Open the databases.** To list all databases in MySQL, execute the following command:

```
SHOW DATABASES;
```