

RDBMS FUNDAMENTALS

ASSIGNMENT 7:

Prepare a series of SQL statements to INSERT new records into the library tables, UPDATE existing records with new information, and DELETE records based on specific criteria. Include BULK INSERT operations to load data from an external source.

```
CREATE TABLE Member (  
    MemberID NUMBER PRIMARY KEY,  
    Name VARCHAR(20) NOT NULL,  
    Address VARCHAR(50),  
    PhoneNumber VARCHAR(10) UNIQUE,  
    Email VARCHAR(20) UNIQUE NOT NULL  
);
```

```
INSERT INTO Member Values(1,'Deepika Naik', 'Honnavar , Karnataka',  
9876543210,'deepika@wipro.com');
```

```
INSERT INTO Member Values(2,Priyanka Naik', 'Honnavar , Karnataka',  
9876543211,'priyanka@wipro.com');
```

```
INSERT INTO Member Values(3'Aishwarya S S', 'chikkamagaluru, Karnataka',  
9876543110,'aishwarya@wipro.com');
```

```
CREATE TABLE Category (  
    CategoryID NUMBER PRIMARY KEY,  
    CategoryName VARCHAR(50) NOT NULL UNIQUE  
);
```

```
INSERT INTO Category VALUES(1,'Fiction');
```

```
INSERT INTO Category VALUES(2,'Non Fiction');
```

```
CREATE TABLE Book (  
    BookID INT PRIMARY KEY,  
    Title VARCHAR(20) NOT NULL,  
    Author VARCHAR(20) NOT NULL,
```

```

    Publisher VARCHAR(20),
    YearOfPublication INT CHECK (YearOfPublication > 0),
    CategoryID REFERENCES Category(CategoryId)
);

INSERT INTO Book VALUES(1,'Educated','Tara Westover','Random
House',2018,1);

INSERT INTO Book VALUES(2,'Beloved','Toni morrison','Vintage',1987,2);

INSERT INTO Book VALUES(3,'The Road','Cormac mcCarthy',
'Vintage',2006,1);

```

```

CREATE TABLE Employee (
    EmployeeID INT PRIMARY KEY,
    Name VARCHAR(20) NOT NULL,
    Position VARCHAR(50),
    Email VARCHAR(20) UNIQUE NOT NULL
);

INSERT INTO Employee VALUES(1,'Kiran','Librarian','kiran@abc.com');
INSERT INTO Employee VALUES(2,'Rahul','Librarian','rahul@abc.com');

```

Update Existing Record:

```

UPDATE Book SET TITLE='Educated (Updated Edition), YearOfPublication=2023
WHERE BookID=1;

SELECT * FROM Book;

```

```

UPDATE Member SET email='aishu.ss@gmail.com' WHERE MemberId=3;

```

Delete Records:

```

DELETE FROM Book WHERE BookId=1;

DELETE FROM Member WHERE MemberId=3;

```

Bulk Insert Operation :

LOAD DATA

INFILE 'C:\path\to\books.csv'

INTO TABLE Book

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY ''''

(

BookId,

Title,

Author

Publisher

YearOfPublication

CategoryId

)

CSV files Include:

1,'Educated', 'Tara Westover', 'Random House', 2018,1

2,'Beloved', 'Toni morrison', 'Vintage', 1987,2

3,'The Road', 'Cormac mcCarthy', 'Vintage', 2006,1