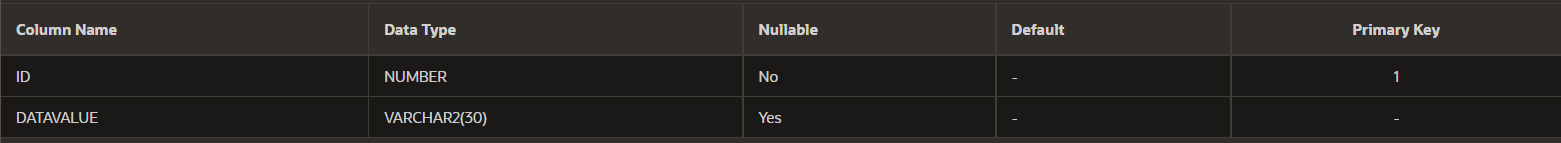
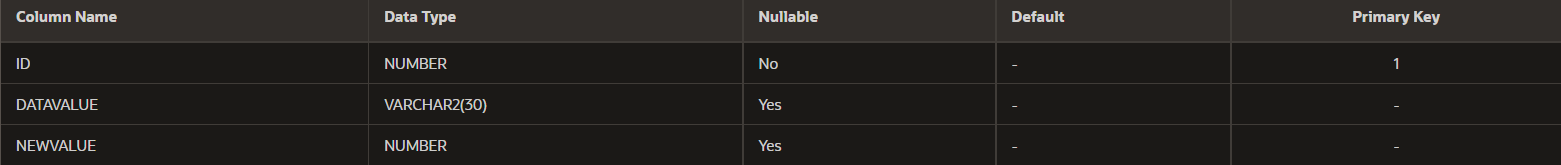
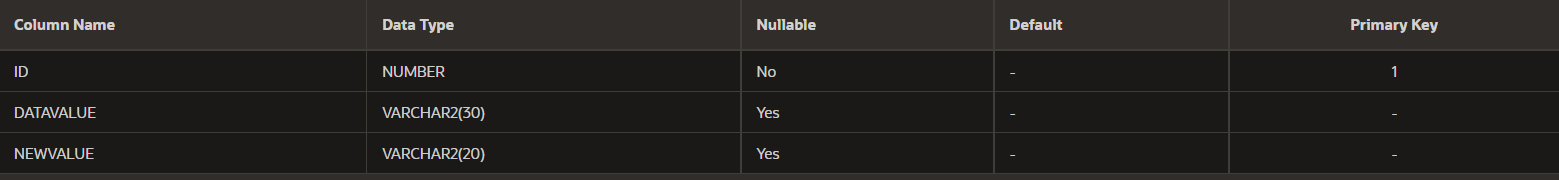
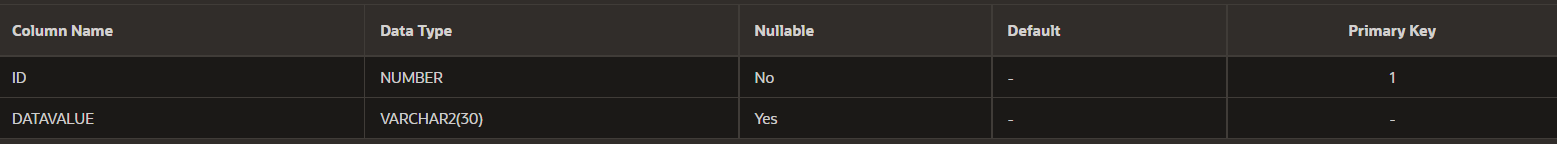
**DDL COMMANDS**

* CREATE
* DROP
* ALTER
* TRUNCATE

create table testTable(ID int Primary key, DataValue varchar(30));

ALTER TABLE testTable ADD(NewValue int);

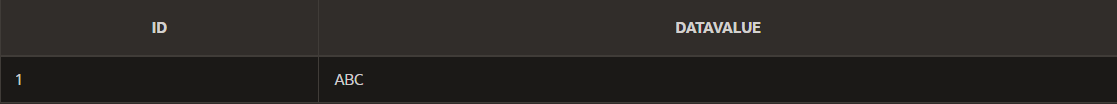
ALTER TABLE testTable MODIFY newValue varchar(20);

ALTER TABLE testTable DROP COLUMN newValue;

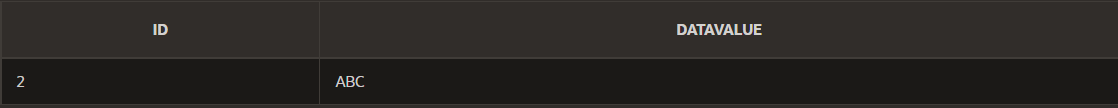
TRUNCATE TABLE testTable;

**DML COMMANDS**

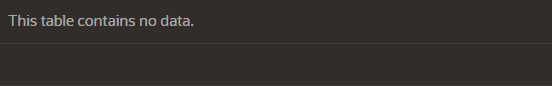
* INSERT
* UPDATE
* DELETE
* SELECT

insert into testTable(ID,dataValue)VALUES('1','ABC');

UPDATE testTable SET ID='2' WHERE ID='1';



DELETE FROM testTable WHERE ID='2';

SELECT \* FROM testTable;

**Imposing restrictions on database (DCL & TCL Commands)**

**DATA CONTROL LANGUAGE(DCL)**

* GRANT
* REVOKE

**TCL COMMANDS**

* COMMIT
* ROLLBACL
* SAVEPOINT

create database testing;

use testing;

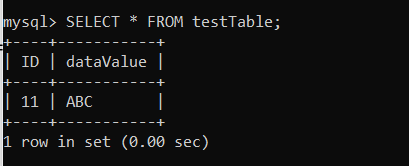
create table testTable(ID INT PRIMARY KEY,dataValue varchar(30));

INSERT INTO testTable VALUES(2,"ABC");

COMMIT;

UPDATE testTable SET ID=11 WHERE ID=2;

SELECT \* FROM testTable;

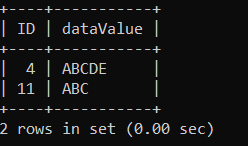


START TRANSACTION;

SAVEPOINT A;

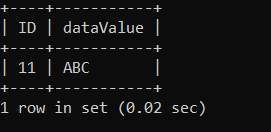
INSERT INTO testTable VALUES(4,"ABCDE");

SELECT \* FROM testTable;



ROLLBACK TO A;

SELECT \* FROM testTable;



**Accessing database (SELECT, Filtering using WHERE, HAVING, GROUP BY, ORDER BY Clauses, Subquery and View)**

CREATE DATABASE library;

use library;

CREATE TABLE book(bookID INT NOT NULL PRIMARY KEY,bookName varchar(20),authorName varchar(20));

INSERT INTO book VALUES(1,"POEM","ROBERT FROST");

INSERT INTO book VALUES(2,"STORY","CHARLES DICKENS");

INSERT INTO book VALUES(3,"NOVEL","Ernest Hemingway");

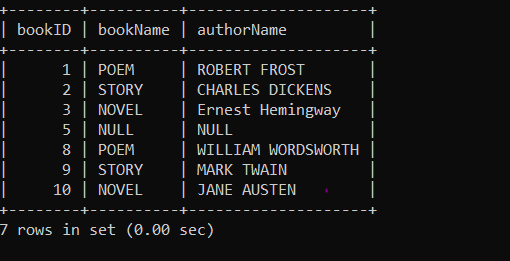
INSERT INTO book VALUES(8,"POEM","WILLIAM WORDSWORTH");

INSERT INTO book VALUES(9,"STORY","MARK TWAIN");

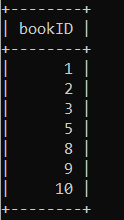
INSERT INTO book VALUES(10,"NOVEL","JANE AUSTEN");

INSERT INTO book(bookID)VALUES(5);

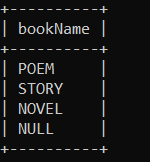
SELECT \* FROM book;



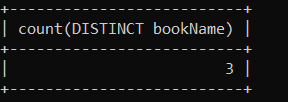
SELECT bookID FROM book;



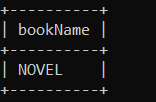
SELECT DISTINCT bookName from book;



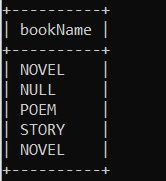
SELECT count(DISTINCT bookName)FROM book;



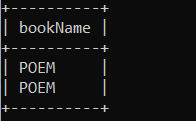
SELECT bookName FROM book WHERE bookID=3;



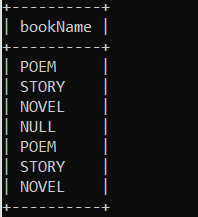
SELECT bookName FROM book WHERE bookID BETWEEN 3 AND 10;



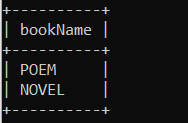
SELECT bookName FROM book WHERE bookName LIKE "P%";



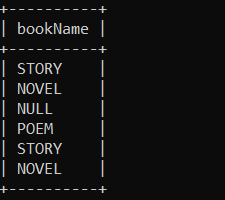
SELECT bookName FROM book WHERE bookID IN(SELECT bookId from book);



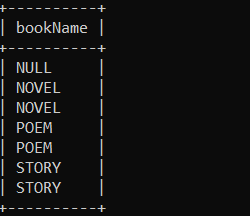
SELECT bookName FROM book WHERE bookID=1 or bookID=10;



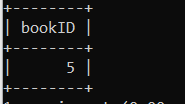
SELECT bookName FROM book WHERE NOT bookID=1;



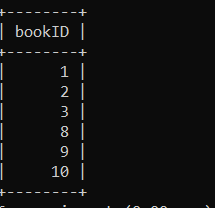
SELECT bookName FROM book ORDER BY bookName ASC;



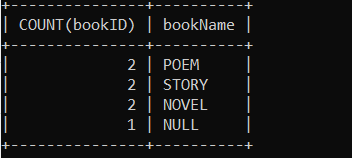
SELECT bookID FROM book WHERE bookName IS NULL;



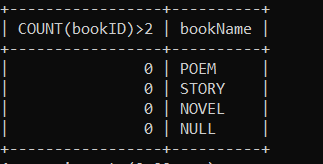
SELECT bookID FROM book WHERE bookName IS NOT NULL;



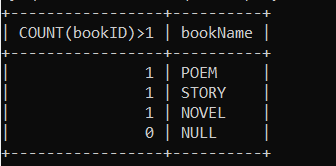
SELECT COUNT(bookID),bookName FROM book GROUP BY bookName;



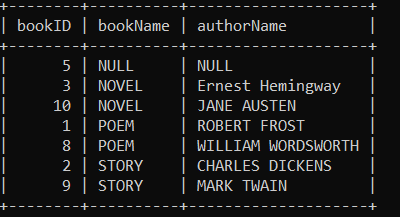
SELECT COUNT(bookID)>2,bookName FROM book GROUP BY bookName;



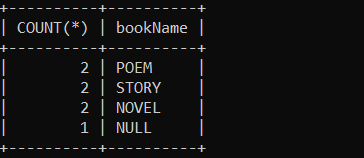
SELECT COUNT(bookID)>1,bookName FROM book GROUP BY bookName;



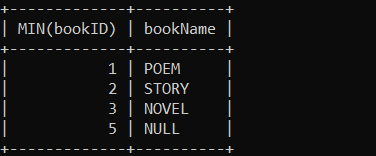
SELECT \* FROM book ORDER BY bookName ASC;



SELECT COUNT(\*), bookName FROM book GROUP BY bookName;

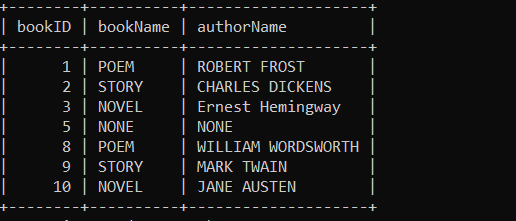


SELECT MIN(bookID),bookName FROM book GROUP BY bookName;

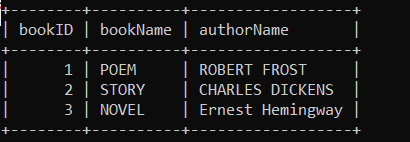


UPDATE book SET bookName="NONE" WHERE bookName IS NULL;

UPDATE book SET authorName="NONE" WHERE authorName IS NULL;



SELECT \* FROM book LIMIT 3;

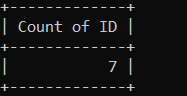


DELETE FROM book WHERE bookID>10;

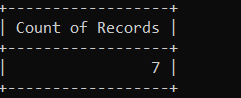
SELECT \* FROM book;



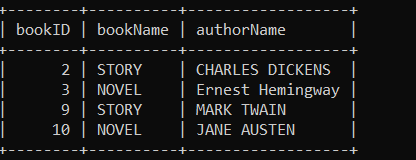
SELECT COUNT(bookID)AS 'Count of ID'FROM book;



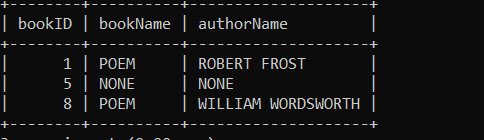
SELECT COUNT(\*) AS 'Count of Records' from book;



SELECT \* FROM book WHERE bookName IN("NOVEL","STORY");



SELECT \* FROM book WHERE bookName NOT IN("NOVEL","STORY");



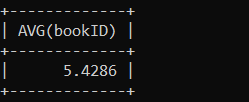
SELECT \* FROM book WHERE bookName IN(SELECT bookName FROM book);



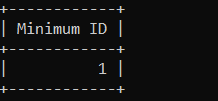
SELECT \* FROM book WHERE bookName NOT IN(SELECT bookName FROM book);



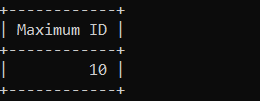
SELECT AVG(bookID)FROM book;



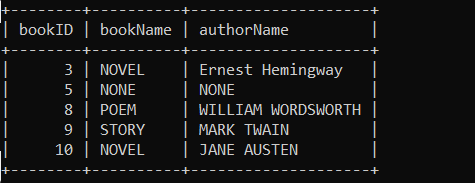
SELECT MIN(bookID) AS 'Minimum ID' FROM book;



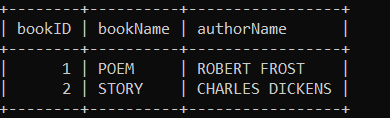
SELECT MAX(bookID) AS 'Maximum ID' FROM book;



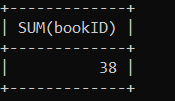
SELECT \* FROM book WHERE bookID BETWEEN 3 AND 10;



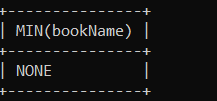
SELECT \* FROM book WHERE bookID NOT BETWEEN 3 AND 10;



SELECT SUM(bookID) FROM book;



SELECT MIN(bookName) FROM book;



SELECT MAX(bookName) FROM book;

