**DIGITALINNOVATORPROGRAMME(DIP)**

**COMPUTER SCIENCE**

**SEMESTER 2 PART 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TASK 3 (10% CARRYMARKS)**

**SQL EXERCISE: LIBRARY DATABASE**

**NAME: HANA NAURAH BINTI NABIL**

**CLASS: 1K6**

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1. **Create the books table**

CREATE TABLE books (

book\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(255) NOT NULL,

author VARCHAR(255) NOT NULL,

borrowed\_date DATE

);

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1. **Add at least 5 books**

INSERT INTO books (title, author, borrowed\_date)

VALUES

('Harry Potter', 'J.K. Rowling', '2024-06-10'),

('The Hobbit', 'J.R.R. Tolkien', '2024-06-12'),

('To Kill a Mockingbird', 'Harper Lee', '2024-06-15'),

('1984', 'George Orwell', '2024-06-18'),

('The Great Gatsby', 'F. Scott Fitzgerald', '2024-06-20');

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1. **List all books**

SELECT \* FROM books;

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1. **Find books by a specific author**

SELECT \* FROM books

WHERE author = 'J.K. Rowling';

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1. **Find books borrowed on a specific date**

SELECT \* FROM books

WHERE borrowed\_date = '2024-06-12';

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1. **Update the borrowed date of a book**

UPDATE books

SET borrowed\_date = '2024-06-25'

WHERE book\_id = 3;

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1. **Delete a book from the table**

DELETE FROM books

WHERE book\_id = 9;

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1. **Re-add the deleted book**

INSERT INTO books (title, author, borrowed\_date)

VALUES ('1984', 'George Orwell', '2024-06-18');

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