Sure! Here are 3 sample entries for the **Authors**, **Books**, and **Patrons** tables, followed by 10 basic SELECT query practice questions.

Sure! Here's an example of a practice question with a corresponding DDL (Data Definition Language) and SELECT query.

### ****Practice Question:****

You are tasked with creating a database for a small library. The library needs to store information about books, authors, and patrons. The system should allow you to:

**Create tables**

1. Store information about books, including genre, title, and publication year.
2. Store information about authors, including their name and nationality.
3. Store information about patrons, including their name, membership ID, and contact information.

**Store 4 dummies datasets and answer following questions**

1. Retrieve all books in the library.
2. Get the names of all authors.
3. List the books that were published after 2000.
4. Find the name and nationality of the author with ID 1.
5. Retrieve the contact info of patrons who have a membership ID starting with 'M12'.
6. Find the genre of the book titled '1984'.
7. List the names of patrons who are not 'Alice Green'.
8. Find the publication year of the book titled 'Kafka on the Shore'.
9. Retrieve all books that belong to the 'Fantasy' genre.

You need to create the necessary tables for this system and write a query to retrieve all books published after the year 2000.

### ****DDL Queries:****

1. **Create a table for Authors:**

CREATE TABLE Authors (

author\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL,

nationality VARCHAR(50)

);

1. **Create a table for Books:**

CREATE TABLE Books (

book\_id INT PRIMARY KEY AUTO\_INCREMENT,

title VARCHAR(255) NOT NULL,

genre VARCHAR(50),

publication\_year INT,

author\_id INT,

FOREIGN KEY (author\_id) REFERENCES Authors(author\_id)

);

1. **Create a table for Patrons:**

CREATE TABLE Patrons (

patron\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL,

membership\_id VARCHAR(50) NOT NULL UNIQUE,

contact\_info VARCHAR(200)

);

### ****SELECT Query:****

Write a query to retrieve all books published after the year 2000.

SELECT title, genre, publication\_year

FROM Books

WHERE publication\_year > 2000;

This should help you practice creating tables and writing queries to retrieve specific information. Let me know if you need more practice or explanations!

### Sample Data:

1. **Authors Table:**

INSERT INTO Authors (name, nationality) VALUES

('J.K. Rowling', 'British'),

('George Orwell', 'British'),

('Haruki Murakami', 'Japanese');

1. **Books Table:**

INSERT INTO Books (title, genre, publication\_year, author\_id) VALUES

('Harry Potter and the Philosopher\'s Stone', 'Fantasy', 1997, 1),

('1984', 'Dystopian', 1949, 2),

('Kafka on the Shore', 'Fiction', 2002, 3);

1. **Patrons Table:**

INSERT INTO Patrons (name, membership\_id, contact\_info) VALUES

('Alice Green', 'M123', 'alice.green@email.com'),

('Bob White', 'M124', 'bob.white@email.com'),

('Charlie Brown', 'M125', 'charlie.brown@email.com');

### ****Basic SELECT Query Practice Questions:****

**Retrieve all books in the library.**

SELECT \* FROM Books;

**Get the names of all authors.**

SELECT name FROM Authors;

**List the books that were published after 2000.**

SELECT title, publication\_year FROM Books WHERE publication\_year > 2000;

**Find the name and nationality of the author with ID 1.**

SELECT name, nationality FROM Authors WHERE author\_id = 1;

**Retrieve the contact info of patrons who have a membership ID starting with 'M12'.**

SELECT contact\_info FROM Patrons WHERE membership\_id LIKE 'M12%';

**Get all books written by 'Haruki Murakami'.**

SELECT title FROM Books

JOIN Authors ON Books.author\_id = Authors.author\_id

WHERE Authors.name = 'Haruki Murakami';

**Find the genre of the book titled '1984'.**

SELECT genre FROM Books WHERE title = '1984';

**List the names of patrons who are not 'Alice Green'.**

SELECT name FROM Patrons WHERE name != 'Alice Green';

**Find the publication year of the book titled 'Kafka on the Shore'.**

SELECT publication\_year FROM Books WHERE title = 'Kafka on the Shore';

**Retrieve all books that belong to the 'Fantasy' genre.**

SELECT title FROM Books WHERE genre = 'Fantasy';

These queries will help you practice retrieving data based on conditions, using joins, and filtering results with WHERE, LIKE, and JOIN statements.