Connecting Intelligence

# Institute of Computer Engineering Technology

iCET Certified Developer

# ASSIGNMENT

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| **Assignement** | Database Management System |
| **Batch No** | iCD 110 |
| **Name** | Basic SQL Commands |
| **Ass. Date** | 6th of March 2024 |

1) Create a database named "Bookstore" and use it.

1.1) Create a table named "author" with columns for author ID (integer), first name (varchar), last name (varchar), and nationality (varchar), and insert sample 5 records.

1.2) Create a table named "book_category" with columns for category ID (integer), category name (varchar), and description (text), and insert sample 5 records.

1.3) Create a table named "publisher" with columns for publisher ID (integer), name (varchar), address (varchar), and phone number (varchar), and insert sample 5 records.

1.4) Create a table named "book_inventory" with columns for book ID (integer), title (varchar), author ID (integer), category ID (integer), publisher ID (integer), price (decimal), and quantity (integer), and insert sample 5 records.

2) Create a database named "Hospital" and use it.

2.1) Create a table named "doctor" with columns for doctor ID (integer), first name (varchar), last name (varchar), specialty (varchar), and years of experience (integer), and insert sample 5 records.

2.2) Create a table named "patient" with columns for patient ID (integer), first name (varchar), last name (varchar), age (integer), and gender (varchar), and insert sample 5 records.

2.3) Create a table named "appointment" with columns for appointment ID (integer), doctor ID (integer), patient ID (integer), appointment date (date), appointment time (time), and appointment type (varchar), and insert sample 5 records.

2.4) Create a table named "medical_record" with columns for record ID (integer), patient ID (integer), doctor ID (integer), diagnosis (text), treatment (text), and record date (date), and insert sample 5 records.

3) Create a database named "Library" and use it.

3.1) Create a table named "member" with columns for member ID (integer), first name (varchar), last name (varchar), date of birth (date), and membership start date (date), and insert sample 5 records.

3.2) Create a table named "book" with columns for book ID (integer), title (varchar), author (varchar), publication date (date), and genre (varchar), and insert sample 10 records.

3.3) Create a table named "borrowed_books" with columns for transaction ID (integer), member ID (integer), book ID (integer), borrow date (date), return date (date), and status (varchar), and insert sample 5 records.

3.4) Create a table named "library_staff" with columns for staff ID (integer), first name (varchar), last name (varchar), date of birth (date), and hire date (date), and insert sample 5 records.

4) Create database and tables based on the provided scenario.

**Scenario:** You are working for an online movie streaming service. You have a database containing information about movies, actors, directors, and user subscriptions. You want to practice basic SQL commands to retrieve and analyze this data.

Tables:

4.1) movies:

Columns: movie_id (integer), title (varchar), release_year (integer)

4.2) actors:

Columns: actor_id (integer), first_name (varchar), last_name (varchar)

4.3) directors:

Columns: director_id (integer), first_name (varchar), last_name (varchar)

4.5) subscriptions:

Columns: subscriber_id (integer), email (varchar), subscription_type (varchar)