DATABASE MANAGEMENT SYSTEM – WEEK 01 ASSIGNMENT

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ICM 106   OR23106564

01.

CREATE DATABASE university;

use university;

```
Keeth@Darshana-PC MINGW64 /k/projects/MY_PROJECTS/ICM106/Database Management System/Assignment 01 (master)
$ mysql -u root -p
Enter password: **********
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.26 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE university;
Query OK, 1 row affected (0.02 sec)
```

```
mysql> use university;
Database changed
```

02.

CREATE TABLE student (

student_id INT,

first_name VARCHAR(25),

last_name VARCHAR(25),

date_of_birth DATE

);

INSERT INTO student (student_id,first_name,last_name,date_of_birth)

 VALUES

(1,'John','Doe','1990-05-15'),

(2,'Jane','Smith','1992-08-22'),

(3,'Bob','Johnson','1995-02-10')

;

```
mysql> use university;
Database changed
mysql> CREATE TABLE student (
    -> student_id INT,
    -> first_name VARCHAR(25),
    -> last_name VARCHAR(25),
    -> date_of_birth DATE
    -> )
    -> ;
Query OK, 0 rows affected (0.08 sec)

mysql> INSERT INTO student (student_id,first_name,last_name,date_of_birth)
    -> VALUES
    -> (1,'John','Doe','1990-05-15'),
    -> (2,'Jane','Smith','1992-08-22'),
    -> (3,'Bob','Johnson','1995-02-10')
    -> ;
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM student;
+------------+------------+-----------+---------------+
| student_id | first_name | last_name | date_of_birth |
+------------+------------+-----------+---------------+
|          1 | John       | Doe       | 1990-05-15    |
|          2 | Jane       | Smith     | 1992-08-22    |
|          3 | Bob        | Johnson   | 1995-02-10    |
+------------+------------+-----------+---------------+
3 rows in set (0.00 sec)

mysql>
```

03.

```
CREATE TABLE book(

book_id INT,

title VARCHAR(30),

author VARCHAR(30),

publication_year INT

);


INSERT INTO book (book_id,title,author,publication_year)

VALUES

(1,'The Great Gatsby','F. Scott Fitzgerald',1925),

(2,'To Kill a Mockingbird', 'harper Lee',1960),

(3,'1984','George Orwell',1949)

;
```

```
mysql> CREATE TABLE book(
    -> book_id INT,
    -> title VARCHAR(30),
    -> author VARCHAR(30),
    -> publication_year INT
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO book (book_id,title,author,publication_year)
    -> VALUES
    -> (1,'The Great Gatsby','F. Scott Fitzgerald',1925),
    -> (2,'To Kill a Mockingbird', 'harper Lee',1960),
    -> (3,'1984','George Orwell',1949)
    -> ;
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM book;
+---------+----------------------+---------------------+------------------+
| book_id | title                | author              | publication_year |
+---------+----------------------+---------------------+------------------+
|       1 | The Great Gatsby     | F. Scott Fitzgerald |             1925 |
|       2 | To Kill a Mockingbird | harper Lee         |             1960 |
|       3 | 1984                 | George Orwell       |             1949 |
+---------+----------------------+---------------------+------------------+
3 rows in set (0.00 sec)

mysql>
```

04.

```sql
CREATE TABLE orders(

order_id INT,

customer_id INT,

order_date DATE,

total_amount DECIMAL

);


INSERT INTO orders(order_id,customer_id,order_date,total_amount)

VALUES

(1,101,'2023-01-15',150.75),

(2,102,'2023-02-20',75.50),

(3,103,'2023-03-10',200.25)

;
```

```
mysql> CREATE TABLE orders(
    -> order_id INT,
    -> customer_id INT,
    -> order_date DATE,
    -> total_amount DECIMAL
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO orders(order_id,customer_id,order_date,total_amount)
    -> VALUES
    -> (1,101,'2023-01-15',150.75),
    -> (2,102,'2023-02-20',75.50),
    -> (3,103,'2023-03-10',200.25)
    -> ;
Query OK, 3 rows affected, 3 warnings (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 3

mysql> SELECT * FROM orders;
+----------+-------------+------------+--------------+
| order_id | customer_id | order_date | total_amount |
+----------+-------------+------------+--------------+
|        1 |         101 | 2023-01-15 |          151 |
|        2 |         102 | 2023-02-20 |           76 |
|        3 |         103 | 2023-03-10 |          200 |
+----------+-------------+------------+--------------+
3 rows in set (0.00 sec)

mysql>
```

05.

CREATE TABLE employee(

employee_id INT,

first_name VARCHAR(20),

last_name VARCHAR(20),

department_id INT

);

INSERT INTO employee (employee_id,first_name,last_name,department_id)

VALUES

(1,'Alice','Johnson',101),

(2,'Bob','Smith',102),

(3,'Charlie','Brown',103)

;

```
mysql> CREATE TABLE employee(
    -> employee_id INT,
    -> first_name VARCHAR(20),
    -> last_name VARCHAR(20),
    -> department_id INT
    -> );
Query OK, 0 rows affected (0.08 sec)

mysql> INSERT INTO employee (employee_id,first_name,last_name,department_id)
    -> VALUES
    -> (1,'Alice','Johnson',101),
    -> (2,'Bob','Smith',102),
    -> (3,'Charlie','Brown',103)
    -> ;
Query OK, 3 rows affected (0.04 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM employee;
+-------------+------------+-----------+---------------+
| employee_id | first_name | last_name | department_id |
+-------------+------------+-----------+---------------+
|           1 | Alice      | Johnson   |           101 |
|           2 | Bob        | Smith     |           102 |
|           3 | Charlie    | Brown     |           103 |
+-------------+------------+-----------+---------------+
3 rows in set (0.00 sec)

mysql>
```

06.

CREATE TABLE product(

product_id INT,

product_name VARCHAR(20),

price DECIMAL,

stock_quantity INT

);

INSERT INTO product(product_id,product_name,price,stock_quantity)

VALUES

(1,'Laptop',899.99,50),

(2,'Smartphone',499.99,100),

(3,'Headphone',79.99,200)

;

```
mysql> CREATE TABLE product(
    -> product_id INT,
    -> product_name VARCHAR(20),
mysql> CREATE TABLE product(
    -> product_id INT,
    -> product_name VARCHAR(20),
    -> price DECIMAL,
    -> stock_quantity INT
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO product(product_id,product_name,price,stock_quantity)
    -> VALUES
    -> (1,'Laptop',899.99,50),
    -> (2,'Smartphone',499.99,100),
    -> (3,'Headphone',79.99,200)
    -> ;
Query OK, 3 rows affected, 3 warnings (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 3

mysql> SELECT * FROM product;
+------------+--------------+-------+----------------+
| product_id | product_name | price | stock_quantity |
+------------+--------------+-------+----------------+
|          1 | Laptop       |   900 |             50 |
|          2 | Smartphone   |   500 |            100 |
|          3 | Headphone    |    80 |            200 |
+------------+--------------+-------+----------------+
3 rows in set (0.00 sec)

mysql>
```

07.

CREATE TABLE category(

category_id INT,

category_name VARCHAR(20)

);

INSERT INTO category(category_id,category_name)

VALUES

(1,'Electronic'),

(2,'Books'),

(3,'Clothing')

;

```
mysql> CREATE TABLE category(
    -> category_id INT,
    -> category_name VARCHAR(20)
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO category(category_id,category_name)
    -> VALUES
    -> (1,'Electronic'),
    -> (2,'Books'),
    -> (3,'Clothing')
    -> ;
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM category;
+-------------+---------------+
| category_id | category_name |
+-------------+---------------+
|           1 | Electronic    |
|           2 | Books         |
|           3 | Clothing      |
+-------------+---------------+
3 rows in set (0.00 sec)

mysql>
```

08.

CREATE TABLE invoice(

invoice_id INT,

customer_id INT,

invoice_date DATE,

total_amount DECIMAL

);

INSERT INTO invoice(invoice_id,customer_id,invoice_date,total_amount)

VALUES

(1,201,'2023-04-05',120.50),

(2,202,'2023-05-12',75.25),

(3,203,'2023-06-20',300.00)

;

```
mysql> CREATE TABLE invoice(
    -> invoice_id INT,
    -> customer_id INT,
    -> invoice_date DATE,
    -> total_amount DECIMAL
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO invoice(invoice_id,customer_id,invoice_date,total_amount)
    -> VALUES
    -> (1,201,'2023-04-05',120.50),
    -> (2,202,'2023-05-12',75.25),
    -> (3,203,'2023-06-20',300.00)
    -> ;
Query OK, 3 rows affected, 2 warnings (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 2

mysql> SELECT * FROM invoice;
+------------+-------------+--------------+--------------+
| invoice_id | customer_id | invoice_date | total_amount |
+------------+-------------+--------------+--------------+
|          1 |         201 | 2023-04-05   |          121 |
|          2 |         202 | 2023-05-12   |           75 |
|          3 |         203 | 2023-06-20   |          300 |
+------------+-------------+--------------+--------------+
3 rows in set (0.00 sec)

mysql>
```

09.

CREATE TABLE event(

event_id INT,

event_name VARCHAR(30),

date DATE,

location VARCHAR(30)

);

INSERT INTO event(event_id,event_name,date,location)

VALUES

(1,'Conference X','2023-07-15','City Hall'),

(2,'Musical Festival','2023-08-22','Park Plaza'),

(3,'Tech Expo','2023-09-10','Convention Center')

;

```
mysql> CREATE TABLE event(
    -> event_id INT,
    -> event_name VARCHAR(30),
    -> date DATE,
    -> location VARCHAR(30)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO event(event_id,event_name,date,location)
    -> VALUES
    -> (1,'Conference X','2023-07-15','City Hall'),
    -> (2,'Musical Festival','2023-08-22','Park Plaza'),
    -> (3,'Tech Expo','2023-09-10','Convention Center')
    -> ;
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM event;
+----------+-----------------+------------+-------------------+
| event_id | event_name      | date       | location          |
+----------+-----------------+------------+-------------------+
|        1 | Conference X    | 2023-07-15 | City Hall         |
|        2 | Musical Festival | 2023-08-22 | Park Plaza        |
|        3 | Tech Expo       | 2023-09-10 | Convention Center |
+----------+-----------------+------------+-------------------+
3 rows in set (0.00 sec)

mysql>
```

10.

CREATE TABLE task(

task_id INT,

task_description VARCHAR(40),

due_date DATE

);

INSERT INTO task(task_id,task_description,due_date)

VALUES

(1,'Complete project proposal','2023-10-15'),

(2,'Prepare for meeting with client','2023-11-02'),

(3,'Review and submit report','2023-12-01')

;

```
mysql> CREATE TABLE task(
    -> task_id INT,
    -> task_description VARCHAR(40),
    -> due_date DATE
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO task(task_id,task_description,due_date)
    -> VALUES
    -> (1,'Complete project proposal','2023-10-15'),
    -> (2,'Prepare for meeting with client','2023-11-02'),
    -> (3,'Review and submit report','2023-12-01')
    -> ;
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM task;
+---------+---------------------------------+------------+
| task_id | task_description                | due_date   |
+---------+---------------------------------+------------+
|       1 | Complete project proposal       | 2023-10-15 |
|       2 | Prepare for meeting with client | 2023-11-02 |
|       3 | Review and submit report        | 2023-12-01 |
+---------+---------------------------------+------------+
3 rows in set (0.00 sec)

mysql>
```