

## **HANDSON3: Control Structures**

```
C:\Users\Bhavani S A>mysql -u root -p
```

```
Enter password: ****
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
```

```
Your MySQL connection id is 13
```

```
Server version: 8.0.42 MySQL Community Server - GPL
```

```
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```

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

```
mysql> CREATE TABLE customers (
```

```
->  customer_id INT PRIMARY KEY AUTO_INCREMENT,
```

```
->  name VARCHAR(100),
```

```
->  age INT,
```

```
->  balance DECIMAL(10,2),
```

```
->  loan_interest DECIMAL(5,2),
```

```
->  IsVIP BOOLEAN DEFAULT FALSE
```

```
-> );
```

```
ERROR 1046 (3D000): No database selected
```

```
mysql> INSERT INTO customers (name, age, balance, loan_interest)
```

```
-> VALUES
```

```
-> ('Rajesh Kumar', 65, 12000.50, 9.50),
```

```
-> ('Ananya Singh', 58, 9800.00, 10.00),
```

```
-> ('Meena Joshi', 61, 15000.00, 8.75),
```

```
-> ('Arjun Reddy', 45, 2000.00, 11.00),
```

```
-> ('Sneha Das', 70, 11000.25, 10.50);
```

ERROR 1046 (3D000): No database selected

```
mysql> show databases;
```

```
+-----+
| Database      |
+-----+
| 4gw22ci014    |
| aiml          |
| bankdetails   |
| college       |
| information_schema |
| my_database   |
| mysql         |
| performance_schema |
| projectstudents |
| projct first  |
| sys          |
+-----+
```

11 rows in set (0.00 sec)

```
mysql> USE bankdetails;
```

Database changed

```
mysql> CREATE TABLE customers (
```

```
->  customer_id INT PRIMARY KEY AUTO_INCREMENT,
```

```
->  name VARCHAR(100),
```

```
->  age INT,
```

```
->  balance DECIMAL(10,2),
```

```
->  loan_interest DECIMAL(5,2),
```

```
->  IsVIP BOOLEAN DEFAULT FALSE
```

```
-> );
```

Query OK, 0 rows affected (0.06 sec)

```
mysql> INSERT INTO customers (name, age, balance, loan_interest)
```

```
-> VALUES
```

```
-> ('Rajesh Kumar', 65, 12000.50, 9.50),
```

```
-> ('Ananya Singh', 58, 9800.00, 10.00),
```

```
-> ('Meena Joshi', 61, 15000.00, 8.75),
```

```
-> ('Arjun Reddy', 45, 2000.00, 11.00),
```

```
-> ('Sneha Das', 70, 11000.25, 10.50);
```

Query OK, 5 rows affected (0.03 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> UPDATE customers
```

```
-> SET loan_interest = loan_interest - 1
```

```
-> WHERE age > 60;
```

Query OK, 3 rows affected (0.02 sec)

Rows matched: 3 Changed: 3 Warnings: 0

```
mysql> UPDATE customers
```

```
-> SET IsVIP = TRUE
```

```
-> WHERE balance > 10000;
```

Query OK, 3 rows affected (0.02 sec)

Rows matched: 3 Changed: 3 Warnings: 0

```
mysql> CREATE TABLE loans (
```

```
-> loan_id INT PRIMARY KEY AUTO_INCREMENT,
```

```
-> customer_id INT,
```

```
-> loan_due_date DATE,
```

```
-> FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
```

```
-> );
```

Query OK, 0 rows affected (0.07 sec)

```
mysql> INSERT INTO loans (customer_id, loan_due_date)
```

```
-> VALUES
```

```
-> (1, CURDATE() + INTERVAL 10 DAY),
```

```
-> (2, CURDATE() + INTERVAL 35 DAY),
```

```
-> (3, CURDATE() + INTERVAL 5 DAY),
```

```
-> (4, CURDATE() + INTERVAL 50 DAY),
```

```
-> (5, CURDATE() + INTERVAL 25 DAY);
```

```
Query OK, 5 rows affected (0.01 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT c.name, l.loan_due_date
```

```
-> FROM customers c
```

```
-> JOIN loans l ON c.customer_id = l.customer_id
```

```
-> WHERE l.loan_due_date BETWEEN CURDATE() AND CURDATE() + INTERVAL 30 DAY;
```

```
+-----+-----+
```

```
| name      | loan_due_date |
```

```
+-----+-----+
```

```
| Rajesh Kumar | 2025-07-09  |
```

```
| Meena Joshi  | 2025-07-04  |
```

```
| Sneha Das   | 2025-07-24  |
```

```
+-----+-----+
```

```
3 rows in set (0.00 sec)
```

```
Command Prompt - mysql -u X + v

11 rows in set (0.00 sec)

mysql> USE bankdetails;
Database changed
mysql> CREATE TABLE customers (
  -> customer_id INT PRIMARY KEY AUTO_INCREMENT,
  -> name VARCHAR(100),
  -> age INT,
  -> balance DECIMAL(10 2),
  -> loan_interest DECIMAL(5 2),
  -> isVIP BOOLEAN DEFAULT FALSE
  -> );
Query OK, 0 rows affected (0.06 sec)

mysql> INSERT INTO customers (name, age, balance, loan_interest)
  -> VALUES
  -> ('Rajesh Kumar', 65, 12000.50, 9.50),
  -> ('Ananya Singh', 58, 8000.00, 10.00),
  -> ('Meena Joshi', 61, 15000.00, 8.75),
  -> ('Arjun Reddy', 45, 2000.00, 11.00),
  -> ('Sneha Das', 70, 11000.25, 10.50);
Query OK, 5 rows affected (0.03 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> UPDATE customers
  -> SET loan_interest = loan_interest - 1
  -> WHERE age > 60;
Query OK, 3 rows affected (0.02 sec)
Rows matched: 3 Changed: 3 Warnings: 0

mysql> UPDATE customers
  -> SET isVIP = TRUE
  -> WHERE balance > 10000;
Query OK, 3 rows affected (0.02 sec)
Rows matched: 3 Changed: 3 Warnings: 0

mysql> CREATE TABLE loans (
  -> loan_id INT PRIMARY KEY AUTO_INCREMENT,
  -> customer_id INT,
  -> loan_due_date DATE,
  -> FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
  -> );
Query OK, 0 rows affected (0.07 sec)

mysql> INSERT INTO loans (customer_id, loan_due_date)
  -> VALUES
  -> (1, CURDATE() + INTERVAL 10 DAY),
  -> (2, CURDATE() + INTERVAL 35 DAY),
  -> (3, CURDATE() + INTERVAL 5 DAY),
  -> (4, CURDATE() + INTERVAL 60 DAY),
  -> (5, CURDATE() + INTERVAL 25 DAY);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT c.name, l.loan_due_date
  -> FROM customers c
  -> JOIN loans l ON c.customer_id = l.customer_id
  -> WHERE l.loan_due_date BETWEEN CURDATE() AND CURDATE() + INTERVAL 30 DAY;
+-----+-----+
| name      | loan_due_date |
+-----+-----+
| Rajesh Kumar | 2025-07-09   |
| Meena Joshi  | 2025-07-04   |
| Sneha Das   | 2025-07-24   |
+-----+-----+
3 rows in set (0.00 sec)

mysql> |
```

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29-06-2025