## **DBMS MODEL PRACTICAL**

```
A)
 mysql> CREATE TABLE book (
            book_name VARCHAR(100),
            author VARCHAR(100),
     ->
            price DECIMAL(10, 2),
     ->
            quantity INT
     ->
     -> );
 Query OK, 0 rows affected (0.32 sec)
b)
mysql> CREATE TABLE customer (
            Cust_id NUMBER PRIMARY KEY,
     ->
            Cust_name VARCHAR(100),
            Addr VARCHAR(200),
     ->
            ph_no VARCHAR(15),
     ->
            pan_no VARCHAR(10)
     ->
```

```
mysql> INSERT INTO book (book_name, author, price, quantity) VALUES ('Book A', 'Author A', 150.00, 10);
Query OK, 1 row affected (0.04 sec)
mysql> INSERT INTO book (book_name, author, price, quantity) VALUES ('Book B', 'Author B', 200.00, 5);
Query OK, 1 row affected (0.04 sec)
mysql> INSERT INTO book (book_name, author, price, quantity) VALUES ('Book C', 'Author C', 225.00, 8);
Query OK, 1 row affected (0.09 sec)
mysql> INSERT INTO book (book_name, author, price, quantity) VALUES ('Book D', 'Author K', 175.00, 12);
Query OK, 1 row affected (0.03 sec)
mysql> INSERT INTO book (book_name, author, price, quantity) VALUES ('Book E', 'Author K', 300.00, 20);
Query OK, 1 row affected (0.03 sec)
mysql> select * from book;
                       | price | quantity |
| book_name | author
             Author A | 150.00 |
 Book A
                                        10 |
  Book B
             Author B | 200.00
                                         5
  Book C
              Author C | 225.00 |
  Book D
              Author K | 175.00
                                        12
             Author K | 300.00 |
  Book E
                                        20
5 rows in set (0.00 sec)
```

```
mysql> SELECT author
    -> FROM book
    -> WHERE price = 200.00;
+----+
| author |
+-----+
| Author B |
+-----+
```

2)

```
mysql> SELECT price
    -> FROM book
    -> WHERE price BETWEEN 175.00 AND 250.00;
+----+
| price |
+----+
| 200.00 |
| 225.00 |
| 175.00 |
+----+
```

3)

```
mysql> SELECT *
    -> FROM book
    -> WHERE author LIKE 'K%';
Empty set (0.00 sec)
```

```
4)
DECLARE
    num1 INT := 10; -- You can change the values as needed
    num2 INT := 20;
    num3 INT := 15;
    largest INT;
BEGIN
    IF (num1 >= num2) AND (num1 >= num3) THEN
        largest := num1;
    ELSIF (num2 >= num1) AND (num2 >= num3) THEN
        largest := num2;
    ELSE
        largest := num3;
    END IF;
    DBMS OUTPUT.PUT LINE('The largest number is: ' || largest);
END;
/
 Output:
 The largest number is: 20
5)
CREATE OR REPLACE FUNCTION factorial(n INT) RETURN INT IS
    result INT := 1;
BEGIN
    FOR i IN 1..n LOOP
       result := result * i;
    END LOOP;
    RETURN result;
END;
DECLARE
    num INT := 5; -- You can change the value as needed
    fact INT;
BEGIN
    fact := factorial(num);
    DBMS_OUTPUT.PUT_LINE('The factorial of ' || num || ' is: ' || fact);
END;
/
 Output:
 The factorial of 5 is: 120
```