

## ONLINE BOOKSTORE DATABASE



### **NOTES:**

- To creating Projects in SQL topic is ONLINE BOOKSTORE DATABASE.
- To creating different table in database and Evaluate in all task.
- To show below in All table Name and Columns and then next page to show All task Query and Output.

### ONLINE BOOKSTORE DATASETS

#### BOOKS DATASET

- Book ID
- Title
- Author
- Publication\_year
- Price
- Available\_quantity

#### CUSTOMERS DATASET

- Customer\_ID
- First\_name
- Last\_name
- Email
- Registration\_Date

### ORDERS\_DATASET

- Order ID
- Customer ID
- Order\_Date
- Total\_amount

### ORDER DETAILS DATASET

- Order ID
- Book ID
- Quantity
- Subtotal

## RETRIEVE A LIST OF BOOKS (BOOK TITLE AND AUTHOR) PUBLISHED IN THE YEAR 2022

```
mysql> SELECT title, author
```

- -> FROM Books\_dataset
- -> WHERE publication\_year = 2022;

```
title
                                 author
 The Rabbit Hutch
                                Tess Gunty
 Forever Home
                                 Graham Norton
 Musical Tables: Poems
                                 Billy Collins
 Horse
                                 Geraldine Brooks
 The Quarry Girls
                                Jess Lourey
 Best of Friends
                                Kamila Shamsie
 Duas Noites em Lisboa
                                 Chris Pavone
 Inciting Joy: Essays
                                 Ross Gav
 Thirst
                                Varsha Bajaj
 Glad My Mom Died
                                Jennette McCurdy
 Poems for the Signs
                                Michaela Angemeer
 All Good People Here
                                 Ashley Flowers
 The Satsuma Complex
                                 Bob Mortimer
 I'm Glad My Mom Died
                                Jennette McCurdy
                                Christina Soontornvat
 The Tryout: A Graphic Novel
 The London Girls
                                 Soraya M. Lane
 Ask for Andrea
                                Noelle W. Ihli
 We Do What We Do in the Dark | Michelle Hart
| Maggie Moves On
                                Lucv Score
 Now Is Not the Time to Panic
                                         Wilson
                                Kevin
 Lo que hay
                                 Sara Torres
 The Bletchley Women
                                 Patricia Adrian
22 rows in set (0.00 sec)
```

## CALCULATE THE TOTAL REVENUE GENERATED BY THE BOOKSTORE IN THE YEAR 2022

```
mysql> SELECT SUM(total_amount) AS total_revenue
```

- -> FROM Orders\_Dataset
- -> WHERE Order\_date BETWEEN '2022-01-01' AND '2022-12-31';

```
+-----+
| total_revenue |
+-----+
| 239629 |
+-----+
1 row in set (0.01 sec)
```

## FIND THE TOP 5 BESTSELLING BOOKS (BASED ON THE TOTAL QUANTITY SOLD) IN DESCENDING ORDER

- mysql> SELECT books\_dataset.title, books\_dataset.author,
  - -> SUM(order\_details\_dataset.quantity) AS total\_quantity\_sold
  - -> FROM Order\_Details\_Dataset
  - -> JOIN Books\_Dataset ON order\_details\_dataset.book\_id = Books\_Dataset.book\_id
  - -> GROUP BY order\_details\_dataset.book\_id, Books\_Dataset.title, Books\_Dataset.author
  - -> ORDER BY total\_quantity\_sold DESC
  - -> LIMIT 5;

+	<b></b>	<b></b>
title	author	total_quantity_sold
Donde todo brilla The Bones of the Story Accidental Attachment Duas Noites em Lisboa Bezmatek	Carol Goodman Max Monroe	34   32   31   30   30
5 rows in set (0.01 sec)		<del></del>

## DETERMINE THE CUSTOMER WHO MADE THE HIGHEST TOTAL PURCHASE AMOUNT AND THE TOTAL AMOUNT THEY SPENT

- mysql> SELECT customers\_dataset.customer\_id, customers\_dataset.first\_name, customers\_dataset.last\_name,
  - -> SUM(orders\_dataset.total\_amount) AS total\_purchase\_amount
  - -> FROM customers\_dataset
  - -> JOIN orders\_dataset ON customers\_dataset.customer\_id = orders\_dataset.customer\_id
  - -> GROUP BY customers\_dataset.customer\_id, customers\_dataset.first\_name, customers\_dataset.last\_name
  - -> ORDER BY total\_purchase\_amount DESC
  - -> LIMIT 1;

## CALCULATE THE AVERAGE PRICE OF BOOKS PUBLISHED BEFORE THE YEAR 2010

- mysql> SELECT AVG(price) AS average\_price
  - -> FROM books\_dataset
  - -> WHERE publication\_year <2010;

```
+-----+
| average_price |
+-----+
| 901.6154 |
+-----+
1 row in set (0.01 sec)
```

### IDENTIFY THE CUSTOMER(S) WHO REGISTERED IN 2023

```
mysql> SELECT customer_id, first_name, last_name

-> FROM customers_dataset

-> WHERE year(registration_date) = 2023;
```

```
customer_id | first_name | last_name
 KM-17035
                             Martin
                Ken
 MH-11140
                             Heidel
                Mary
 LD-16630
                             Dominguez
                Lena
 DC-17500
                Dave
                             Chong
 DC-14560
                Doug
                             Cousins
                             Cacioppo
 MC-14755
                Michelle
 SB-16105
                             Brooks
                Steven
7 rows in set (0.01 sec)
```

## CALCULATE THE TOTAL NUMBER OF ORDERS PLACED IN THE DATABASE

**QUERY:** 

mysql> SELECT COUNT(\*) AS total\_orders
-> FROM orders\_dataset;

```
+-----+
| total_orders |
+-----+
| 55 |
+-----+
1 row in set (0.01 sec)
```

## FIND THE BOOK(S) WITH THE LOWEST AVAILABLE QUANTITY IN STOCK

- mysql> SELECT title, available\_quantity
  - -> FROM books\_dataset
  - -> ORDER BY available\_quantity ASC
  - -> LIMIT 1;

# CALCULATE THE TOTAL REVENUE FOR EACH YEAR FROM 2020 TO 2022

#### **QUERY:**

mysql> SELECT YEAR(order\_date) AS year, SUM(total\_amount) AS total\_revenue

- -> FROM orders\_dataset
- -> WHERE YEAR(order\_date) BETWEEN 2020 AND 2022
- -> GROUP BY YEAR(order\_date);

```
+----+
| year | total_revenue |
+-----+
| 2020 | 303559 |
| 2021 | 226674 |
| 2022 | 239629 |
+----+
3 rows in set (0.00 sec)
```

### DETERMINE THE CUSTOMER(S) WITH THE MOST ORDERS PLACED

+   customer_id	first_name	+   last_name 	++   order_count	
DC-17500 DB-13270 TB-21175	Dave Deborah Thomas	   Chong   Brumfield   Boland	8     7     6	
++ 3 rows in set (0.00 sec)				

