SQL Project

**Submission type**: File Upload

**Due Date:** Nov 28, 11:59 PM

**Total Score**: 80

**Available from**: Nov 05, 8:00 AM

**Description**

Dear Participants,

Please find below SQL Project instructions:

* You have to submit 2 files:

* 1. **SQLite file(.sqbpro)**: In this, you need to submit all the answers to all the questions for Part-1(SQLite) in a sequential manner. You will be evaluated for part-1 based on this file.
  2. **MySQL file(.SQL)**: In this, you need to submit all the answers to all the questions for   Part-2(MySQL) in a sequential manner. You will be evaluated for part-2 based on this file.
* Any assignment found copied/ plagiarized with another person will not be graded and marked as zero.
* Please ensure timely submission as a post-deadline assignment will not be accepted.

**Project Problem Statement:**

You are hired by a chain of online retail stores **“Reliant retail limited”**. They provided you with “**orders**” database and seek answers to the following queries as the results from these queries will help the company in making data-driven decisions that will impact the overall growth of the online retail store.

**1st part(Q1-Q6)** comes under SQLite and queries should be executed in **DB Browser**. (Database used- [New Orders.db](https://olympus.greatlearning.in/courses/37166/files/4047912/download?verifier=HtUvaSdNfgmVccXAGyQ7VZsRpeB1Yg54jIreIeeu&wrap=1))

**2nd part(Q7-Q10)**comes under MYSQL and the queries should be executed in **MYSQL**. (SQL Script used - [new Orders.sql](https://olympus.greatlearning.in/courses/37166/files/4047911/download?verifier=ALiFTI7oOmYn4kQb7U583LQ1htBe5JBcr0WoZhLT&wrap=1))

**Note:**In case the file gets open in the browser, Please copy the entire text(including comment) and paste it on MySQL workbench. Execute all the commands to create a database schema. In case, if you are able to download the file, please use MySQL Workbench, File>open SQL Script>new orders.SQL and then execute all the statements to create a database schema.

**All Questions carry 8 marks. Total Marks (8 x 10) = 80**

Please refer to this link to download the Project with all the queries and instructions - [Project Orders (SQLite & MYSQL) 13may .pdf](https://olympus.greatlearning.in/courses/37166/files/4047916/download?verifier=LTTnIcmgeINkMaF2DPQQ4pvq1YVOJadLCPKgc7YR&wrap=1)

**Important Note: Please reflect on all that you have learned while working on this project. This step is critical in cementing all your concepts and closing the loop. Please write down your thoughts**[**here**](https://docs.google.com/forms/d/e/1FAIpQLScKlYHD4kjZMQZMzU04KnkQmB0tLFci3BqXmTIv0iy62-5zZQ/viewform?usp=sf_link)**.**

Regards,

Program Office

**Scoring guide (Rubric) - SQL Project (2) (1)**

| Criteria | Points |
| --- | --- |
| 1. Write a query to Display the product details (product\_class\_code, product\_id, product\_desc, product\_price,) as per the following criteria and sort them in descending order of category: a. If the category is 2050, increase the price by 2000 b. If the category is 2051, increase the price by 500 c. If the category is 2052, increase the price by 600. Hint: Use case statement. no permanent change in table required. (60 ROWS) [NOTE: PRODUCT TABLE] | 8 |
| 2. Write a query to display (product\_class\_desc, product\_id, product\_desc, product\_quantity\_avail ) and Show inventory status of products as below as per their available quantity: a. For Electronics and Computer categories, if available quantity is <= 10, show 'Low stock', 11 <= qty <= 30, show 'In stock', >= 31, show 'Enough stock' b. For Stationery and Clothes categories, if qty <= 20, show 'Low stock', 21 <= qty <= 80, show 'In stock', >= 81, show 'Enough stock' c. Rest of the categories, if qty <= 15 – 'Low Stock', 16 <= qty <= 50 – 'In Stock', >= 51 – 'Enough stock' For all categories, if available quantity is 0, show 'Out of stock'. Hint: Use case statement. (60 ROWS) [NOTE: TABLES TO BE USED – product, product\_class] | 8 |
| 3. Write a query to show the number of cities in all countries other than USA & MALAYSIA, with more than 1 city, in the descending order of CITIES. (2 rows) [NOTE: ADDRESS TABLE] | 8 |
| 4. Write a query to display the customer\_id,customer full name ,city,pincode,and order details (order id, product class desc, product desc, subtotal(product\_quantity \* product\_price)) for orders shipped to cities whose pin codes do not have any 0s in them. Sort the output on customer name and subtotal. (52 ROWS) [NOTE: TABLE TO BE USED - online\_customer, address, order\_header, order\_items, product, product\_class] | 8 |
| 5. Write a Query to display product id,product description,totalquantity(sum(product quantity) for a given item whose product id is 201 and which item has been bought along with it maximum no. of times. Display only one record which has the maximum value for total quantity in this scenario. (USE SUB-QUERY)(1 ROW)[NOTE : ORDER\_ITEMS TABLE,PRODUCT TABLE] | 8 |
| 6. Write a query to display the customer\_id,customer name, email and order details (order id, product desc,product qty, subtotal(product\_quantity \* product\_price)) for all customers even if they have not ordered any item.(225 ROWS) [NOTE: TABLE TO BE USED - online\_customer, order\_header, order\_items, product] | 8 |
| 7. Write a query to display carton id, (len\*width\*height) as carton\_vol and identify the optimum carton (carton with the least volume whose volume is greater than the total volume of all items (len \* width \* height \* product\_quantity)) for a given order whose order id is 10006, Assume all items of an order are packed into one single carton (box). (1 ROW) [NOTE: CARTON TABLE] | 8 |
| 8. Write a query to display details (customer id,customer fullname,order id,product quantity) of customers who bought more than ten (i.e. total order qty) products per shipped order. (11 ROWS) [NOTE: TABLES TO BE USED - online\_customer, order\_header, order\_items,] | 8 |
| 9. Write a query to display the order\_id, customer id and cutomer full name of customers along with (product\_quantity) as total quantity of products shipped for order ids > 10060. (6 ROWS) [NOTE: TABLES TO BE USED - online\_customer, order\_header, order\_items] | 8 |
| 10. Write a query to display product class description ,total quantity (sum(product\_quantity),Total value (product\_quantity \* product price) and show which class of products have been shipped highest(Quantity) to countries outside India other than USA? Also show the total value of those items. (1 ROWS)[NOTE:PRODUCT TABLE,ADDRESS TABLE,ONLINE\_CUSTOMER TABLE,ORDER\_HEADER TABLE,ORDER\_ITEMS TABLE,PRODUCT\_CLASS TABLE] | 8 |
| Please reflect on all that you learnt and fill this reflection report: https://docs.google.com/forms/d/e/1FAIpQLScKlYHD4kjZMQZMzU04KnkQmB0tLFci3BqXmTIv0iy62-5zZQ/viewform?usp=sf\_link | 0 |
| Points | 80 |