| **Activity** | |
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| **Launching the Activity**  In this lab, you will write SQL queries to perform joins along with other SQL functions.  Scenario: You have been provided with a sales dataset stored in a SQL database. The dataset contains information about sales transactions, including order details, customer information, and product details. Your task is to analyse this dataset using SQL to gain insights into the sales performance.  Let’s get started!   * In MySQL Command Line Client, create and use a database called “sales\_db”. * Download the *SQL-08 - SQL Lab - 2 SQL Files.zip* file and extract the contents. * There will be 6 .sql files in total.   + 5 files with a number in the name correspond to a task from this assessment.     - These .sql files contain part of the required query.     - **Please complete the SQL queries in each file to accomplish the associated task.**   + 1 file named table\_creation.sql contains the necessary SQL query to create the 3 tables.   + You can run your file in MySQL Command Line Client with the following command (to see the output of your written query): source <file path><file name>.sql   For example, to create the user data table, you can run it in the MySQL Command Line Client with the following command: source C:\Sample Folder 1\Sample Folder 2\table\_creation.sql  (Note that you need to update your file path according to the file’s location on your device.)  Feel free to search for MySQL resources online to help you complete the assessment. Good luck! | |
| **SQL Tasks**  **Task 1.** What is the total sales amount for each customer?  Expected Output:    **Task 2.** Which product has the highest sales quantity?  Expected Output:    **Task 3.** What is the total revenue generated from each product?  Expected Output:    **Task 4.** How many orders were placed on each date?  Expected Output:    **Task 5.** Who are the top 3 customers in terms of total sales amount?  Expected Output: | |
| **Code Evaluation**  **Please follow the instructions on Canvas to submit your code for instructor evaluation.**  Before submitting, check your lab results with the *test.py* file.  Steps:   1. Download the file shared with you and copy it to your project folder containing the 8 .sql files 2. Open the file in VS Code. Edit the code between Line 8-13 as per your configuration. 3. Click "File", then "Open Folder" to open the folder for your lab 4. Click "Terminal", then "Open Terminal" to open the integrated terminal 5. Install pytest with the command: python -m pip install pytest 6. Test your lab with the command: python -m pytest test.py 7. Wait for the marking script to finish executing 8. Read the terminal output to see your results | |