

# Midterm Evaluation

## SET A

04/03/2025

Mark: 20

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- Write the query, execute and paste screenshots, and make a pdf. Paste the text of the query too. You need to show a screenshot to demonstrate the correctness of your query. If you have made some changes that are not visible in the direct output, display the whole table again.
  - Submit one file .pdf file containing all answers and the file name should be **<roll no>\_<name>\_midterm\_setA.pdf**
  - Write the questions before the answers.
  - Write a small justification for your solution
  - submit the pdf in Moodle.
  - Duration: **1 hour 30 minutes**
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1. Create a database, and name it 'Northwind'. Restore the database using the .sql file provided 1
2. Do a bulk insert into the table 'us\_states' from the file insert.csv 1
3. Get the customers' names who ordered nothing 2
4. Write a SQL query to display each employee's first name, last name, birth date, and current age. Only include employees born after 1960 who have valid birth dates, and sort the results so that the oldest employee (by age) appears first. 2
5. List the total number of orders made by customers living in each city 3
6. Create a function to calculate the total sales amount generated from a specific customer, considering only orders that have been shipped (i.e., where shipping\_id is not NULL). The function should account for any discounts applied in the order\_details table. It should take a customer\_id as input and return the total sales amount. 4
7. Creating an Updatable View for Product Pricing
  - a. Create a view named discounted\_products that includes only products where the price < 50. 2
  - b. Add the WITH CHECK OPTION constraint so that any updates or inserts through this view must maintain a price < 50. 1
  - c. Test this by:
    - i. Successfully inserting a product with price = 40. 1

- ii. Failing to insert a product with price = 60 1
- iii. Successfully updating a product's price from 30 to 45. 1
- iv. Failing to update a product's price from 45 to 55. 1

