

# Midterm Evaluation

## SET B

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\_setB.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. Modify the table 'region' to add state\_id. Set the default to 'Texas' and handle the foreign key accordingly. 1
3. Retrieve the order\_id, customer contact name for orders shipped to either 'France' or 'Germany' 2
4. Write a query to fetch the ProductID and ProductName of products that have been purchased by at least one customer and are supplied by SupplierID = 1 3
5. List the total number of orders made by customers in each city 3
6. Create a table named Commissions with attributes

(employee\_id int,  
employee\_name varchar,  
commission int,  
reports\_to int null)

The commission is calculated as follows:

for each employee, calculate the no of orders delivered \* 50.

We would like to set up a Pyramid system where each employee who is being reported will get 100% of their subordinate's commission along with their commission. Create a procedure that does this process and displays the cumulative commissions of all

employees.

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7. Write a procedure that creates a new table `employee_category`, which classifies employees into Active, Moderate, or Inactive based on the number of orders they have handled. The structure of **employee\_category** is:

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(`employee_id` INT (primary key), `total_orders` INT, `category` TEXT)

Employees should be classified into the following categories:

- "Active" if they have handled 50 or more orders
- "Moderate" if they have handled between 10 and 49 orders
- "Inactive" if they have handled less than 10 orders

Ensure that employees with zero orders are properly categorized as "Inactive".

