Data Warehouse and Business Intelligence Lab

DEARTMENT Department of Data Science

COURSE NAME Data Warehouse and Business Intelligence Lab

COURSE CODE DS-306

MANUAL LAB 4

Objective: To establish that writing analytical queries over a relational database is a challenging task

TASK 1: For the Northwind Database write SQL queries for the following basic statements

- Select monthly sales by customer state compared to those of the previous year
- 2. Monthly sales growth per product, that is, total sales per product compared to those of the previous month
- 3. List the top three best-selling employees
- 4. Best-selling employee per product and year
- 5. Countries that account for top 50% of sales amount
- 6. Total sales and average monthly sales by employee and year
- 7. Total sales amount and total discount amount per product and month.
- 8. Monthly year-t-date sales for each product category
- **9.** Moving average over the last 3 months of the sales amount by product category
- **10.** Personal sales amount made by an employee compared with the total sales amount made by herself and her subordinated during 1997