CO-PO-PSO Mapping Table

1. Course Outcomes (COs)

- CO1: Define key terms and components related to database clustering and distributed databases.
- CO2: Explain the processes for deploying, monitoring, and managing database clusters.
- CO3: Apply CRUD operations, automation tools, and cluster monitoring utilities to manage data and nodes.
- CO4: Analyze performance metrics and identify solutions to cluster connectivity and latency problems.
- CO5: Evaluate the effectiveness of security mechanisms and backup strategies in a database system.
- CO6: Design and implement cluster configurations and communication architectures for different scenarios.

2. Program Outcomes (POs)

- PO1: Engineering Knowledge
- PO2: Problem Analysis
- PO3: Design/Development of Solutions
- PO4: Conduct Investigations
- PO5: Modern Tool Usage
- PO6: Engineer & Society
- PO7: Environment & Sustainability
- PO8: Ethics
- PO9: Individual & Team Work
- PO10: Communication
- PO11: Project Management
- PO12: Life-long Learning

3. Program Specific Outcomes (PSOs)

- PSO1: Ability to design and manage data-centric solutions using modern database technologies.
- PSO2: Ability to implement secure, scalable, and fault-tolerant distributed database systems.

4. CO-PO-PSO Mapping Table

CO \	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PO1	PO1	PSO	PSO

PO/PSO	1	2	3	4	5	6	7	8	9	0	1	2	1	2
CO1	3	2	1	1	2	0	0	1	0	1	0	2	2	2
CO2	3	3	2	2	3	1	0	1	1	2	1	2	3	2
CO3	3	3	3	2	3	1	0	1	1	2	2	3	3	3
CO4	3	3	2	3	3	1	0	1	1	2	2	3	2	3
CO5	3	2	2	2	2	2	1	2	1	1	1	3	3	3
CO6	3	3	3	3	3	1	0	1	2	2	2	3	3	3