Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110
NAAC A++
Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Artificial Intelligence & Data Science

Vision of the Department

To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem-solving skills through emerging technologies.

Session 2025-2026

Vision: Dream of where you want.	**Mission:** Means to achieve Vision

Program Educational Objectives of the program (PEO): (broad statements that describe the professional and career accomplishments)

PEO1	**Preparation**	**P: Preparation**	**Pep-CL abbreviation pronounce as Pep-si-lL easy to recall**
PEO2	**Core Competence**	**E: Environment (Learning Environment)**	
PEO3	**Breadth**	**P: Professionalism**	
PEO4	**Professionalism**	**C: Core Competence**	
PEO5	**Learning Environment**	**L: Breadth (Learning in diverse areas)**	

Program Outcomes (PO): (statements that describe what a student should be able to do and know by the end of a program)

Keywords of POs:
Engineering knowledge, Problem analysis, Design/development of solutions, Conduct Investigations of Complex Problems, Engineering Tool Usage, The Engineer and The World, Ethics, Individual and Collaborative Team work, Communication, Project Management and Finance, Life-Long Learning

PSO Keywords: Cutting edge technologies, Research

"I am an engineer, and I know how to apply engineering knowledge to investigate, analyse and design solutions to complex problems using tools for entire world following all ethics in a collaborative way with proper management skills throughout my life." *to contribute to the development of cutting-edge technologies and Research*.

Integrity: I will adhere to the Laboratory Code of Conduct and ethics in its entirety.

Name and Signature of Student and Date
(Signature and Date in Handwritten)

Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110
NAAC A++
Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Artificial Intelligence & Data Science

Vision of the Department

To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem-solving skills through emerging technologies.

Session	2025-26 (ODD)	**Course Name**	BDH Lab
Semester	7 AIDS	**Course Code**	22ADS703
Roll No	21	**Name of Student**	**Sanskrui.Paunikar**

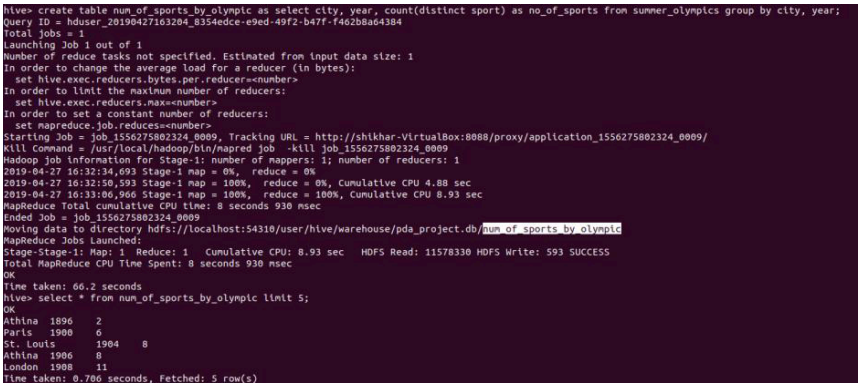
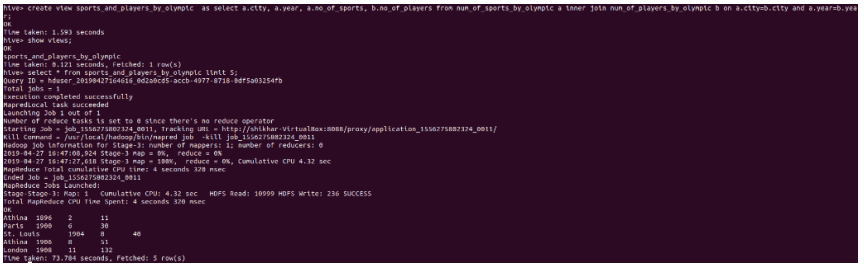
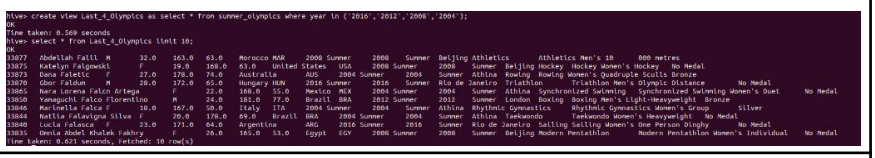
Practical Number	**6**
Course Outcome	**CO1:-** 1. Understand big data analytics and its business applications. **CO2:-** Analyze the HADOOP and Map Reduce technologies associated with big data analytics. **CO3:-** Apply Big Data analytics Using Pig and Hive.
Aim	Perform Case Study: Analyzing Olympic Data Set Using Hive.
Problem Definition	
Theory (100 words)	Apache Hive enables querying and analyzing large datasets stored in Hadoop's HDFS using HiveQL, a SQL-like language. In a case study with an Olympic dataset, Hive can be used to extract insights such as medal tallies, country-wise performance, athlete participation, and trends over time. By creating structured tables from raw CSV or text files, Hive allows filtering, aggregation, sorting, and joining data efficiently using MapReduce or Tez. This approach leverages distributed processing to handle large-scale datasets, making it suitable for historical Olympic records analysis, performance tracking, and generating meaningful statistics for sports analytics..
Procedure and Execution (100 Words)	Steps of Implementation:- 1. Start Hive shell: `hive` 2. Create and use a database: `CREATE DATABASE olympics_db; USE olympics_db;` 3. Create a table for Olympic data with appropriate schema. 4. Load dataset into the table: `LOAD DATA LOCAL INPATH 'olympic_data.csv' INTO TABLE medals;` 5. Run Hive queries for analysis (e.g., medal counts, country-wise or year-wise trends). 6. Verify tables and schema: `SHOW TABLES;`, `DESCRIBE medals;` 7. View and interpret query results.

Vision of the Department

To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem-solving skills through emerging technologies.

	Code:    
Output Analysis	After loading the Olympic dataset into Hive tables, queries such as SELECT country, COUNT(*) FROM medals GROUP BY country; or SELECT year, SUM(gold) FROM medals GROUP BY year; produce aggregated results. The output displays medal counts per country, athlete participation trends, and yearly performance metrics. Verification with SHOW TABLES; and DESCRIBE table_name; confirms correct schema and data

	loading. The results demonstrate Hive's capability to handle large datasets, perform complex queries, and provide actionable insights efficiently.
Link of student Github profile where lab assignment has been uploaded	https://github.com/sanskruti-1234/BDH.git
Conclusion	Using Hive, the Olympic dataset was successfully analyzed to extract meaningful trends and statistics. Hive simplified large-scale data querying with SQL-like commands while leveraging Hadoop's distributed processing for scalability and efficiency. This case study highlights Hive's effectiveness for big data analytics in sports and other domains requiring structured data analysis.
Plag Report (Similarity index < 12%)	
Date	30/10/2025