Paper / Subject Code: 42372 / Big Data Analytics

14/11/2024 CSE-AIML SEM-VII C SCHEME BIG DATA ANALYTICS QP CODE: 10064705

Time: 3 Hours			
Note	Note: 1. Question 1 is compulsory 2. Answer any three out of the remaining five questions. 3. Assume any suitable data wherever required and justify the same.		
Q.1	(a)	Explain 5 V's of big data.	05
	(b)	Differentiate between SQL vs NoSQL	05
	(c)	Write the limitations of Hadoop.	S 05
	(d)	Explain how failures are handled in Map Reduce job	05
Q.2	(a)	Illustrate relational algebra operations with example.	10
	(b)	Explain big data enabling technologies.	10
Q.3	(a)	Explain PCY algorithm and its types with neat labeled diagram	10
	(b)	Compare different types of NoSQL architectural pattern	10
Q.4	(a)	Explain Hadoop Architectural Model with both components in detail	10
E)	(b)	Write the functions of the components and execution steps in Map	10
	5	Reduce	
Q.5	(a)	Write issues in data stream queries. Explain the issues in data streaming	10
	(b)	Explain Page rank using Map reduce, also explain spider traps and dead	10
		ends	
Q.6	(a)	Explain CURE algorithm with its advantages over traditional clustering algorithm	10
	(b)	Explain Movie recommendation using Collaborative -based filtering.	10
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