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## V SEMESTER B.TECH. (COMPUTER SCIENCE & ENGINEERING) MAKE-UP EXAMINATIONS, JAN 2017

SUBJECT: Business Intelligence and Applications [CSE 4024]

## REVISED CREDIT SYSTEM 03/01/2017

Time: 3 Hours MAX. MARKS: 50

## **Instructions to Candidates:**

- ❖ Answer **ALL** the questions.
- Missing data may be suitable assumed.
- Draw diagrams wherever applicable.
- 1A. What are the solutions to storage challenges of Unstructured Data?

2M

- **1B.** For the following OLAP cube below (Fig 1.1), which shows Sale figure of various components for different cities across three years, perform the following OLAP operations & show resultant cube:
  - i) Slice the cube for year: 2004

1M

ii) Dice the cube for year: 2004 and City: Delhi and Pune

1M

iii) Roll-Up the cube for years (Assume unavailable values)

1M

**2M** 

iv) Pivot

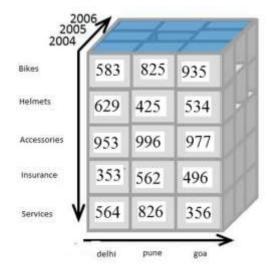


Fig 1.1

**1C.** Should OLAP be performed on the operational databases? Why?

**3M** 

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2A.	What is i) Dresner's definition for Business Intelligence?						
2B.	<ul><li>ii) Single Version of Truth? Give an example.</li><li>With a neat diagram of BI component framework, describe Business Layer along</li></ul>						
2C.	with its compon	ents ween different Types	e of BIlleare		3M		
20.	Distinguish bett	ween different Type.	3 01 D1 03613.		JIVI		
3A.	Describe Kimba diagram(s).	all's and Inmon's app	oroach to data wareh	nousing. Draw required	3M		
3B.	Explain the goa	ls of a Data wareho	use.		4M		
3C.	C. Draw the diagram of intermediate stages of ETL and explain the same.						
4A	Every book has a title, isbn, year and price. The store also keeps the data of author and publisher for any book.						
	• For authors, the database keeps the name, address and the URL of their homepage. For publishers, the database keeps the name, address, phone number and the URL of their website.						
	<ul> <li>The store has several warehouses, each of which has a code, address and phone number. The warehouse stocks several books. A book may be stocked at multiple warehouses.</li> </ul>						
	<ul> <li>The database records the number of copies of a book stocked at various warehouses.</li> </ul>						
	The bookstore keeps the name, address, email-id, and phone number of its customers.						
	<ul> <li>A customer owns several shopping basket. A shopping basket is identified by a basketID and contains several books.</li> </ul>						
	• Some shopping baskets may contain more than one copy of the same book. The database records the number of copies of each book in any shopping basket. Design an ER diagram for such a bookstore.						
4B.	With an example for each, describe Star and Snowflake Schema						
4C.	Define with an e	example:			2M		
	i) Data	ii) Measure	iii) Metric	iv) Index			
5A.	, , , , , , , , , , , , , , , , , , ,						
5B.	each.  With a neat diagram, explain the four Perspectives of Balanced Scorecard						
5C.	Discuss all the different types of containers used in control flow of SSIS						

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