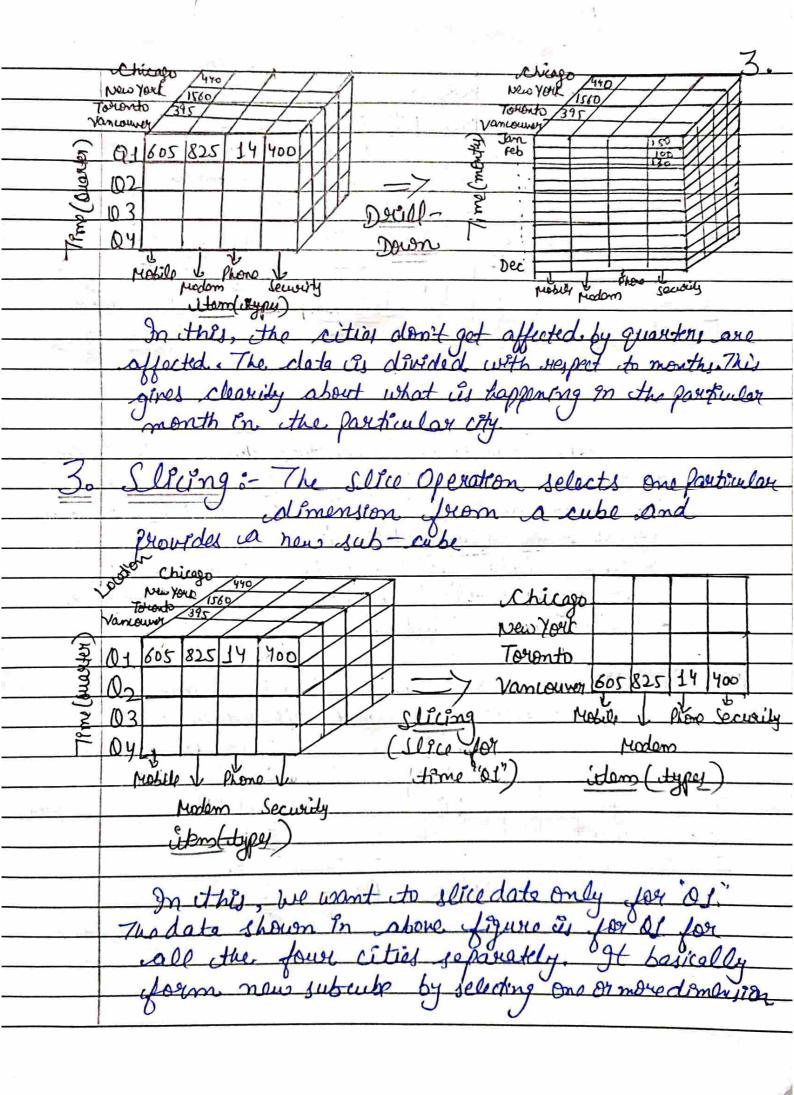
Assignment 1 Set A COUNTRE COOL :- CAP44 ate of Submission: 27-9-21 Dame: Sinjanpreet Kaun RAIL HO. 3-B56 Section: D2112 Registration no:-1211

Assignment 1 Quest: What is a date cube? Explain its museus
genations by taking a real-life example on a
case study. A data cube is a multidimensional data model that stores the oftimized, summarized or aggregated data which is defined by stimonisons and facts. Outs cube stores the precomputed data and eases online analytical processing. Onto stoud in date cube is represented en demensions and facts. Dimensions are entitles with respect to which Organization. wants to keep succeede ads are numerical measures. It is the quantities by which we want to analyze relationships Letween Dimension pione & prono security Computer Wars (Hyper) In the stone data cube, we can stone sales of all terms.



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	to be observe data' sensitivity and preserve Jeopla's
	faivaig while featorming date mining.
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(1)	Invisible data minings we cannot expect energyone
	about date mining techniques. Many systems have
	Entitle data meneng functions, one can simply
	use data mining results by clicking on mouse et Tuis
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	Is done without my knowledge to user for exaft, while purchasing items online, user may be unaware.
	of the hungry sattorn of the customer that is
	collecting the date by store, that may be used to
	recommend other litery for jurchase in the future
Que3º	House AND Enterentence on Herry delected laws
<u>gas</u>	How are interesting satterns, detected from a dataset? Illustrato an example to support your
	answer.
Ans-	Various trads of knowledge can be mined
	ferom dataset. Not all fatterns are
	preteresting. Only a small forgetion of preterns would be interesting to my
	patterns would be interesting to my
	"wer. A pattern is enteresting only it is

1 lastly understood by humans 20 valid on new date with containety potentially cuseful An interesting fathern is the one that requirements knowledge. The first step to detect interesting pottern in date mency is By Organize and evaluate the data = By organizing and evaluating the date, you will be able to find the vielenant date By survitizing the date will be show Seprente the noisy data from the date set and Irolerant Pryormation is provided to us. The obility of enaluate and analyze our large data sets is challenging but it will provide advantage to our business By Discovering Frequent Hemsets: - Discovering patterns designed to be applied on a transaction mode by customery un stores. A transition is defend a set of distinct items. For example, in transection database athere are four transecmilt?, "breed", " melt" and "better". 71. bread, butters spenich 72 - butter, salmon 73: bread, milk, butter 74: cread bread, mich

Dues 48 What is KDD Juries ? Stato each step with mexaugh KDD is knowledge Discovery from Data It refers to the sucreduce of discovering knowledge in Data and Implement Data Kining techniques so that preticular information can be extracted from large data KDD is knowledge extraction from data Steps Involved in LDD Juxeus-Evaluation Knowledge Data Selection and Reigniformation Task Relevant Date Data Integration Data Cleaning: - In this, redundant data combe ellminated. Data cleaning is Data marchaise We remove unwanted date

6. Pattern Evaluation: - Patterns are evaluated to Juduce the meaninful Acta. It is defend as elentifying structly intrusing patterns to represent traveledge bound on given measures. Summarization and Visuolization is used to make data understandable by 7 Knowledge Representation:- After lattern Evaluation, it is need its represent to the buledge knowledge Representation is representing of data after various steps such as from Data cleaning to latern Evaluation.

The troubledge that is extracted in used to generate reports, tables, charts graphs etc. In this whole puncer, we firstly extract data from the Data Source. Then varous tools. After that, the date is Entegrated from various sourced and combined performed to select the relevant date from the Dato Worsehouse. The Selected dato is then transformed into appropriate form received by mining procedure Data Kining the the patterns, pattern evaluation is defined that is used to represent data by using various trals. Hence the provided is extracted So, it is knowledge Discovery from the Date

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The state of the s	OLAP is different of	or ways
	OLAP	OLTP
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5.	OLAP's main speration	OLTP's moon openation
	OLAP's main operation is to extract multi-	is to susert delate
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6.	OLAP's has long and	OLTP Les short but
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		mention and control to a
70	The procuency time for	The processing time for
	The processing time for OLAP Is more than	DITP is clay then BIAP
	OLTR	Alexander of the second of the
8.	The quories of OLAP	The queries of OLTP. axo
	are more complex	loss complex than OIAP
======	than OLTP.	
78	In OLAP, the transition	In OLTP, the transition
	it does not bother	care brequest it is
	it does not bother	fails in middle, it may
1-1	much about data	Joils in middle, it may
	Integrity.	8 3
1.0	In of All, only read only	In OLTR, there is short
	queries see there, they	and atomic transactions
	operate on hige volumes	It requeres recovery
<u>t</u>	operate on huge volumes of data and the	mechanism and consumerance
	greenes are complex	control.
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OLTP OLAP 11 OLAP allows hundred Databases allows thousands of wise thousands of wisers 12. Duory throughput is Tronsaction throughput the performance motric is the performance motric H cadministers doily transactions of an B. OLAP caesta a single Platform for all Lyps of business analytical needs which includes flormeng, budgeting, 140 frampleifis Lecommendation system like coolies. When we search Grample Blanking - ATM. ATH is Grangle of DLTP. It is bried on DACID properties. the data on any doper, that we risked is come Ti) OLTP is used for Onlene banking, sending up first test mekaje, morno a Veded rummendation shopping moidd book gres recommendation about videos that to cout ot we often worth