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	Panel-c, Baten-c2
	ROIL NO: PC-44
	DEC Lab Assignment-6
4.	
*	Aim: Apply a-puisoui algorithm to find frequency
	of occuring items yourn given data & generate
	istering association rules.
, yk	Objective: Leaven forequent itembets, closed itemsets,
	Howket Basket Analysis
	· Calculate supposet, confidence & light
	· 70 generale the association voles.
•	
46	Inputs: Octaset
-	
→	outputs: cenerating association vules.

∂ €	Platform: Windows - Version
	Coal
**	FAOIS
(Q1)	Clybolt is the annual in
Ans	What is the a-periousi purinciple?
WIS	known as periori
	at it in the an interest is frequent, then all
	The a-puriouri algorithm is known as terpuriouri knowledge. If an interest is frequent, then all of its combsets must be frequent.
	gw .

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	CIASSAM Data: Paga:
(0 ಶ)	what are the different steps in volved in a-purious
Ans	algorithm? Diffalize
	2) Generale Forequent 1 - itemset
	3) Generale graquent K-ilomset (K>1)
	4) Coenerate association vulles
	5) Calculate Confidence
	6) Pure weak vulles.
@3)	is a minimum supposet thoushold? What
	CON WICHOUGH This hold?
whs	1 Lt Us minimum breasings of accuracy of
	1 COLD COLD COLD TO LO
	broguent"
	2) Themiset with isupposed below this threshold
	the mining process.
	3) Minimum confidence threshold:
	It is the minimum acceptable perobability that
3	It is the minimum acceptable perobability that a vole must have to be considered isteriong.
	Pulas tal a des
	are considered and a selection below this threshold
	Rules below confidence between bRlow this threshold are considered weak & may not porovide meaningful insights.
<u>Q4)</u>	How are the prequent item but idealistical
	How are the prequent item sots identified using the a-purious algorithm?
Ans	1) Initialize

- 2) Cenerale greequent 1-itemsets
- 3) Cenerale frequent K-itemsets (K>1)

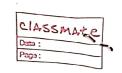
The identified grequent itemsets are those sets of items that meet our exceed especified minimum supposed threshold.

The frequent itemsets capture patterns of co-occurences in dataset.

- 05) How we association vules generated using a-puinvi algoviethm?
- Ans 1) Converate Forequent itemsets
 - 2) Generate Candidate violes
 - 3) Calculate Confidence
 - 4) Poune Weak vules

the viernaining vules, after pruning are considered vaturong association veules.

- 06) How can the a-puriouri algorithm be used to delet credit card friand in real time?
- Ans) Tournsaction Representation
 - 2) Set minimum support thereshold to capture common patterns
 - 3) Generate association rules with relevant confidence levels
 4) Monitour Real-Lime toronsactions:



- 5) Evaluate the new transaction against the generales association rules.
- (07) How can retain Schema & concept Dienarchies be used to analyse weal-time water data to identify tranding products by product category, product subcategory & product brand in real time?

 Ans Star Schema:
 - · Utilize a steer schema with a centeral glact table contenting real time vales data (measures line sales quantity)
 - connect this fact table to dimension table your product category, product subcategory, product brand, & time.
 - · Enables efficient & quick analysis by peroviding a clear estructure for querying & aggregating sales data.

Concept Hierarchies!

- · Cuercle concept hierarchies within the purochect, dimension
- · Poroduct Category
- · Poroduct Subcategory
- 1º Puroduct Buranel
 - higher-level categories to move detailed brand insights