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Association Rule:

$$\{I_1, I_2\} \rightarrow \{I_3\} = \text{Supp}(I_1, I_2, I_3)$$

$$= \frac{2}{4} \times 100$$

$$\sqrt{1,133} \rightarrow \sqrt{123} = \frac{2}{5}$$
 100

$$\{133 \rightarrow \{1, 123 = \frac{2}{6}, 100\}$$

= 50 %

= 100%.

$$\{1_2, 7_5\} \rightarrow \{1, 3\} = \frac{2}{2} \times 100$$

= 100.1.

$$\{75\} \rightarrow \{7, 12\} = \frac{2}{2} \times 100$$

= 100%

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so strong association rules alle

 $\begin{cases} I_1, I_5 J \rightarrow \{I_2 J \\ J_3, I_5 J \rightarrow \{I_1 J \\ \{I_5 J \rightarrow \{I_1, I_2 J \} \\ \end{bmatrix}$

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02	
ANS	A web crawler is an automated program that scans
	or craw's through the internet pages to create
	an indem of the data. It is also known as a web
	spider, web robot, bot crawler and automatic indener.
	web oxawling is considered to be an important
	method a for collecting data and keeping up
	with the empanding internet and therefore search
	engines make use of web crawlex to extrect
	information about the dota on public web pages.
	and their primary purpose is to collect data so
	that when a user enters a search term on their
	site they can be quickly provided with relevent
	web siter
	Types of crowlers:
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Q3 b Data warehouse design is one of the key technique ANS in building the data warehouse choosing a sight data watchouse design can save the project time and cost. Basically there are two data warehouse design approaches that are popular: 1) BOTTOM-UP DESIGN: In this approach the data mouts are created just to provide reporting capability. A data-mart addresses a single business area such as sales, finance etc. These data marts are then integrated to build a complete data voarehouse manual line and their busi ADVANTAGES IN WIND TO · Documents can be quickly generated · The data waxehouse can be entended to accomodate mew business units and the · This model contains consistent data maxts and these data marts can be integrated with other data marts and derived delivered quickly. DISADVANTAGES · The positions of the data workhouse and the data marts are reversed in the bottom-up approach.

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112	Single fourthers a such as source for and
2)	TOP-DOUON DESIGN APPROACH: This is a data-driven
	approach as the information us
	gathered and integrated first and then business
	greating by subjects for building date the
	are formulated since this method supports a
lo m	single integrated data source, the data matts
	built from it will have consistency when they overlap
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, i .)	ADVANTAGES !! ! HOU LOOD AND THE ! SO STANTE STANTE
	· Data marts are waded from the data warehouses. · Developing new data mart from the data wasehouse
	· Developing new data most from the data valehouse
	is very leasy.
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D T	DISADVANTAGES SEE IN LINE CONTROL WAS ABLED OF WHILE
	· This technique is inflemible to changing department
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	ree cost of implementing the project is high

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