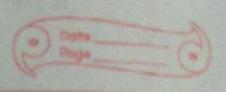
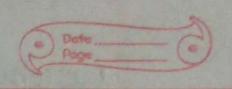
Medni Sergh	CHAPTER-2 Page 6
	EXPRESSING
	MEANING
ADV MAN	Contents:
	· Triple Storie
	· Meigeng Groaphs
NO HEAL	· Querying : Case study
and the	
8/2/8	Triple 8tore
.0	
€.9:	Let us suppose me have aprèce of
-	Enforcemation as:
	Nermala Patil has phone number 22445
XML	<prone no=""></prone>
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	(PhNo. > 224455 APhonemik (PhNo)
	(Monent)
RDF	or ¿Priene Name = "Normala Patel" Phone = "22445
Scmanti	c C D Level 3
Knewled	ge } 6 6 / Level 3 (Knowledge of obj)
Represent	ation 6 6 week XML lobject
	DNC

RDF: Resource Development Franchouse 91, studies in collège. 6.98 Resource Predicate Resource. subject Object Triple Tople We have 03 components Elsbject, predicate l'object to depine à Statement | fact , Es called + riple. Triple is a data structure. It is a basic unit to represent any enformation in semantic met. RDF has the concept of XML, HTTP, URI. RDF Bubject Prédécate Object XML HTTP URI URI URI/LINERAL The Object can act as subject to some another statement. SI Studges & XYZ Uneversity Gregalo



Tulples can also be represented as
quaph.
object outin
(91) studieson (collège) as subject to
Node-Edge Node Structed In
Node-Edge Node Representation (Hubballe)
Billian Suntably & Charles Shows
Types of Notations:
Types of Notations: (1) Node-Edge-Node W
(2) N3
3 Twelle (Extension of NB)
Sembotic trangle: - 5 Meaning 3
concert is trangle: - 7 meaning 3
concept (A pariticular concept) can be
be represented by an object.
(concept)-snavced concept
in the state of concept
Experience describe
(Synthe Represent Object)
apple resource



URI: Uniquem Resource Identity. using this arry entity can be represented en met.

URI -> nttp://dopedlactffel/ L Identity

*

[HTML | XML | Represent Tryonnatas

Mergeng Graphe:

"Pluto" "discovered in "1930" Bubject Relationship literal Triple 1

Triples "Puto" "alscovered by" "Clyde-Tornbaug Object

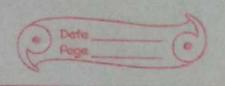
- alscovered in (1930) 1). (Pluto
- a). (Pluto) descovered by Clyde Tombargh

for menging me need URI frem det depedia.

Merging the triplets, me get: (http://dbpedla.org/Hesource/Pluto elescoverd ontology <a href=//dopedfa.org/ entelogy discovered by (Cujac Tombough) <nttp://dbpedla.039/ortologg/</p> 3). Clyde Tombough 5treator Illone boun in streaton Illeone. >Tolple3 of present)

Chapter-02 (LP) Texpressing meaning

- 1). Innat is a triple storie? Can you reclate Et neiter any similar tool or technology?
 - · Tulple stone les a data stoncture med to model the graphs used in semantic technologies.
 - " It is a three column format also known as toppe, and it forms the fundamental building block of semantic representation.
 - · It can be related or compared with Relational databases.
 - · Unlike relational databases which store data in tables, triplestores store data as statements in the Subject-Predicate-Object form.
- · leg: Jesseca teacnes Computer science.
- to an entity a thing for number we have



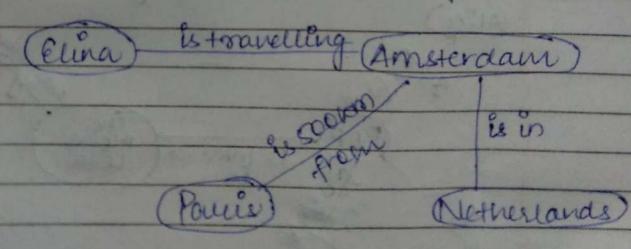
a conceptual class.

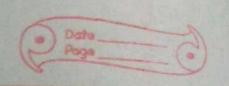
Teaches' Es a predicate that represents a purposety of the entity to unich they are attached.

'Computer Science' coursesponds to object.

- 2). Design youer oven tolple store for a vallmay seat booking engine. In the given scenacio, the treplots could be written as:-
 - · Elena is travelling to Amsterdam.
 · Amsterdam is in Netherlands.

 - · Amsterdam is 500km from Paulso





3). What are dota graphe?

Multiple triples can be ited together

ty using same subjects and objects in

different triples journing a directed

graph.

Data greaper re a data structure minion is used to represent the toppe data.

E.g:

Bubject Predicate Object

Bub les a friend of Alice

Bub les a person

Bub les Friterested in The Mona Ilea

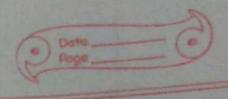
The Monalisa was created by Leonardo DA Vind

Alice

BOB BOB

1s interested The mona

Person



5). Explain the need to query data.

Once the knowledge is represented using RDF, we need to be able to access relevant parts of it both for reasoning as well as developing applications using query language, number allows us to select, extract potherwise easily get a hold of particular sections of knowledge expressed in RDF.

To sample query language that use a sample query language that represents the different graph relationers