

	Foga
	Types of Databases
	delication with a second of the second of th
9	Relational Databases:-
•	Based on the relational model: holoular
	Based on the relational model; popular since the 1970.
•	us es SOL for operations (create, read update, delete).
•	Stores data in tables, with relationships
	vial foreign dkeys, and olding horz - 1 Non Milliott "
	Optionized for structured data, ensures dosta
	nogralization.
•	e.g. > MySQL etc sundain (1 the whole 12)
(2)	Object-Oriented Databases:
•	Based on oops concept in about
	stores data as objects, rather than in tables.
•	Advantages: Mandles complex data, easy setoieval,
7.0	on a man oop-foiendly. I suono ministra
	Disadvantages: High complexity affects performance,
	tradque ytimonomonity support.
	E.g. > Object DB, Cremstone.
(3)	NoSQL Databases:
	V050-
•	Non- tabular databases with flexible schemas.
•	Types: - document, key-value, wide-column, syroph adeal for handling large data sets & horizontal scaling
	of low handling lange data sets & hoerizontal scoling
•	Maria for Comment of Spen - Sp
•	In Schema-free and Open-Source.
•	Eg. vee => Big data.
- 11	



	Constant Con
(A)	Hierarchical Databases:
•	organized data in a tree- like structure
	Organites data in a tree-like structure (parent child relationships).
1	
elsk ale	Simple and fast for one - to - many relationships (eg. 2) file systems, drop-down meny
43 =	ocasions rubs (eq. 3) file systems, anop-aloun oneny
•	Drawback: - Smflexible for complet relationships E.p. 2) IBBM MIMS!
- /-	E.p. 2) IBBM ATMS COMPA
	neidazilannia n
3	Network Databases:- 40, 19,21,19 (20.9)
	Extension of hierarchical databases with
	17 oras linked to conultiple parents
• •	ideal, in a day of stanguage, ideal
	(Co.(Co.))   Co. (Co.)   Co. (
complete a	Mainteenance is challenging, and M links can Slow retroieval
•	Limited Web Commonumity Supposed.
•	Eg. = JOS. TDMS, et though to the
	-1 seighton (7: 132 N/ (8)
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10 C	True 32 - Shiring , whole party to morning to
was bar	-63 MARTINE LANGE CONTROL CONTROL ENTREMENTE HIS
	weeks 2 modes but as the mast as the
	strik in the man and a