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	Name: - Parmax Kalpesh Pro Subject: - RDBMS RollNo: - 92400584194 Class: - MCA 1(c)	avinbhai
0-1.	Write down the difference	between DBMs 1/2 RDBMs.
No.	DBMS	RDBMS
1.	DBMS stores data as file	RDBMS stores duter in tabular form.
2.	Data elements need to access individually	Multiple data elements can be accessed at the same time
3	No relationship between	Data is stored in the form of tables which are related to each other.
ч.	Normalization is not present.	Normalization is present.
5.	DBMs does not support distributed database.	ROBMS supports distributes
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- Q-2 Write down the advantages of DBMS
 - · Data Integrity: Ensure accuracy and consistency of duta through constraints and validation
 - · Data Security: Provides robust security measures
 allowing access control and user
 authentication.
 - · Data Redundancy: Reduces data deplication by centralizing data storage, mining redundancy.
 - * Data Consistency: Maintains uniformity of data accords the database, preventing conflicting data entries.
 - · Backup and Recovery: Facilitates data backup and
 recovery processess to prevent
 - · Multi-user support: Enables multiple users to excess and manipulate data concurrently without conflicts.
 - · Data Abstraction: Simplifies data management by providing a higher level of abstraction from physical data storage.

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· Efficient Douta Access: Uses indexing and quary optimization techniques to improve data retrieval speeds.

Explain in brief: Actors and Workers.

Actorsi-

1) Destablise Administrator (DBA):

- · Responsible for the overall management of the database System.
- · Tasks include installtion, configuration, monitioning backup, Security and performance tuning.

2) End Users:

- · Individuals who interact with the destrubase through applications.
- · Casual Users: User pre-built reports and simple
- · Power Users: Engage with more complex queries and analysis, often utilizing advanced features

3 Application Programmers:

· Develop software applications that interface with the destabase

Ul System Analysis:

· Access business requirements and translate them into dutabase specification.

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	Workers!
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	1) DBMS Software:
	· The underlying software that manages data storage and
	retrieval.
	· Processes Sal command and enforces duta integrity through
	constraints and ruls.
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	2) Datelbase Engines:
	2) Datelbase Engines: · Handle the actual storage, retrievel and management of
	dates.
-	- Diffrent engines may optimize for performance, reliability
	ex specific workloads
	3) Data Analysts:
	· Analyze duta stored in the dutabase to provide insights
	and support decision-making.
	· Often use tools and queries to generate reports and
	Visualizations
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	1) Backup and Recovery Tools:
	· Ensure data safety by creating backups and providing
	recovery option in case of failure
	· Often part of the DBA's responsibilities but can
	also be managed by specific software.
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