short Notes 1) String is immutable in Java. A string is an immutable object which means we cannot change them after creating the objects. Whenever we change any string, a new instance is created. In the term "immutable string" in Java refers to a string object that cannot be altered, but the reference to the object to can be changed, 2) Array and Arraylist Array: · Fixed gize · Declared with Square brackets [] · Elements are of the same data type. · Memory allocation is Static · Faster access and manipulation · No built-in methods for adding / removing elements Arraylist: · Dynamic size · Implemented as a class java util. Arraylist · Elements can be of different data types (object) · Memory allocation is dynamic · slower access and manipulation companed to arrays · Built-in methods for adding removing elements 3) The need of overriding equals and Hashcode methods as a standard context of collection Framework overriding the equals () and hashcode () methods in Java is important for defining object equality and ensuring the correct behavior of collections. This is especially, true when working with custom data types

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	5. Execute queries? Execute Sol queries wing statement.	
	execute Queries: Execute Spl que (1:	
	execute Query () or Statement execut coperation of the statement executed as a second	1
	6. Process results: Process the and result using Resultset object	
	1 Roultset	
_	7. close Resource: close the statement, connections and Resultset	
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	Database Connectivity API's in Java	
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	relational mapping. (ORM)	
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	Interfaces and types of interfaces and advanced Feature	472
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77	Interfaces in java define a contract or a set of	1
-1 3015	methods that must be implemented by any class that	34
	implements it and a matrick of the same of	_
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2 CO. 1	Types of Interfaces;	-
	1. Normal Interfaces: Defines methods and constants	
	2. Marker Interfaces: Empty interface used for tagging or	2
A TOTAL P	narking classes, which is Manialard alain Halomania	1

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W Full Outer Join ! Returns all records from both tables with null values where no match exists.

V) Cross Join : Returns the cartesian product of both tables

DIFFERENT Types of constraints

- 1. Primary key (PK): Unique identifiet for each records
- 2. Foreign key (FK): References the PK of another table
- 3. Unique: Ensures unique values for a column or set of
- 4. Not Null: Ensures a column cannot contain null values.
- 5. check: Enjures data meets specific conditions.
- 6. Default ! Provides a default values for a column
- 7) ACID properties of Databases
 - 1. Atomicity: Ensures database transactions are

treated as a single, indivisible unit.

- 2. Consistency : Ensures database remains in a
- consistent state, even after multiple transactions
- 3. Isolation: Enjures concurrent transactions do not
- interface with each other,
- 4. Durability: Ensures committed transactions are permanently stored.