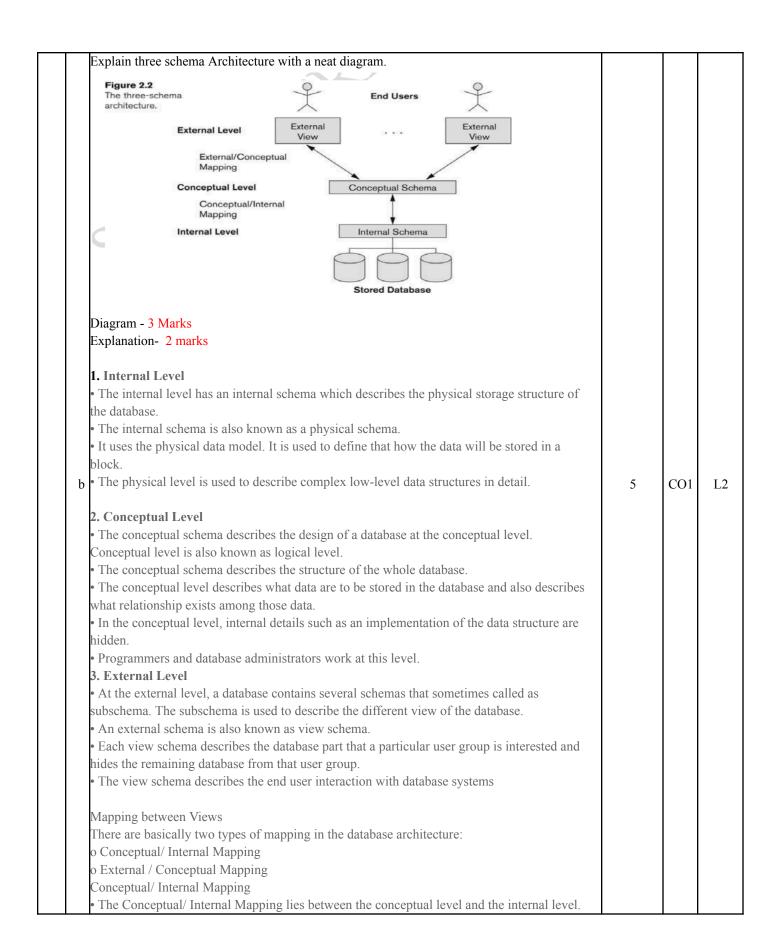
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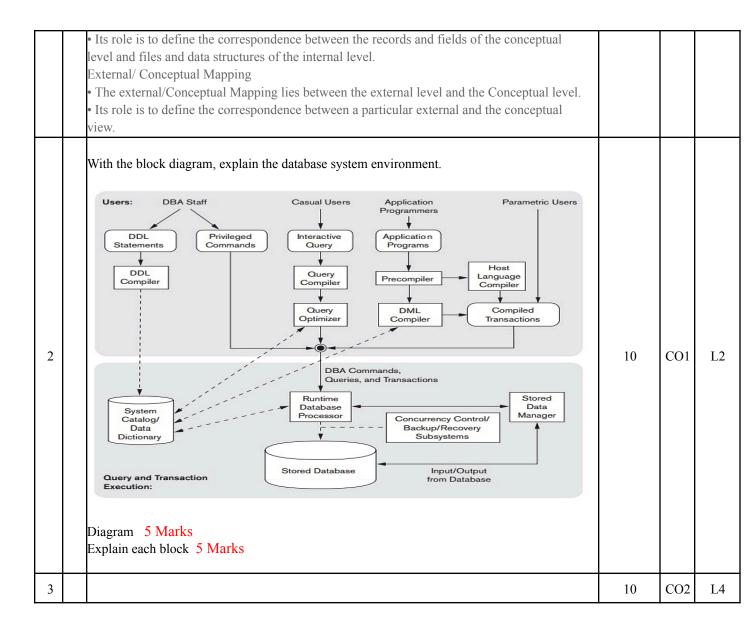


Internal Assessment Test 1 – March 2025

Sub:	Database Ma	nagement S	System			Sub Code:	BCS 403	Branch	AINDS	S/CS	(DS)
Date:	25/03/2025	Duration:	90 minutes	Max Marks:	50	Sem	IV		0	OBE	
			Answer any	FIVE Question	15				MARK S	СО	RBT

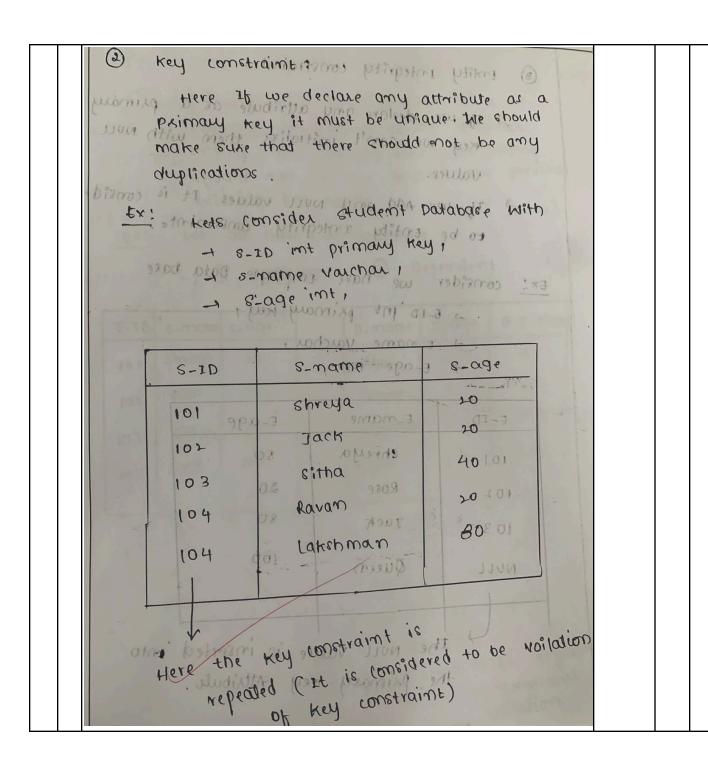
Define 1) Data Model - 1 mark a data model is a collection of concepts that can be used to describe the structure of a database, including: Data types Relationships **Constraints** Operations on the data **Types of Data Models High-Level (Conceptual) Data Models** Low-Level (Physical) Data Models Representational (Implementation) Data Models 2) Schema 1 mark A schema is defined as the description of a database. It defines the structure and organization of the data and how the data is related. The schema includes definitions of tables (relations), types of data (attributes), and relationships between data. 3) Cardinality Ratio 1 mark the cardinality ratio is a key concept in the Entity-Relationship (ER) model. It refers to the 5 CO1 L1 **number of entities** that can be associated with entities of another type via a relationship. 1 They are: One-to-One (1:1) One-to-Many (1:N) Many-to-One (N:1) Many-to-Many (M:N) 4) Composite Attribute 1 mark A composite attribute is an attribute that can be divided into smaller subparts, which represent more basic attributes with independent meanings. Eg: Address Street City State ZipCode 5) Weak Entity Type 1 mark A weak entity type is an entity that does not have a primary key of its own and relies on a related strong entity (also called the owner) to be uniquely identified.

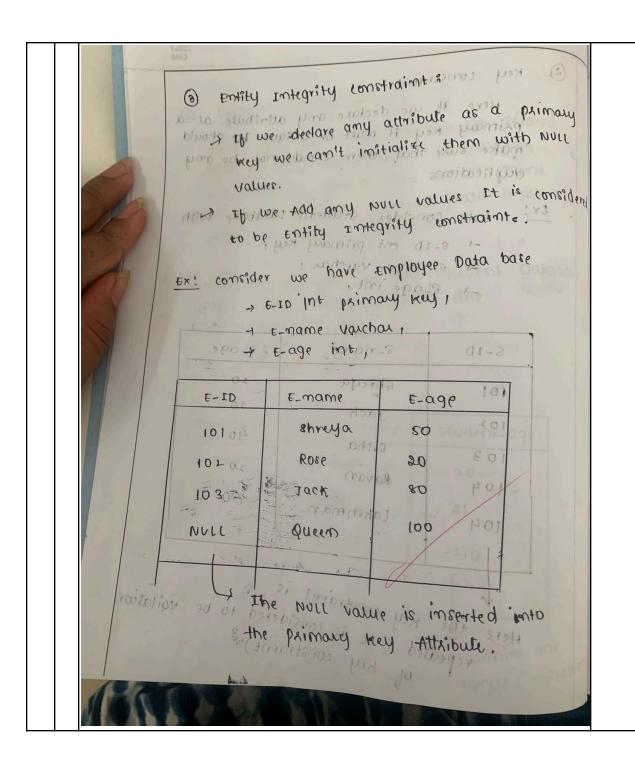


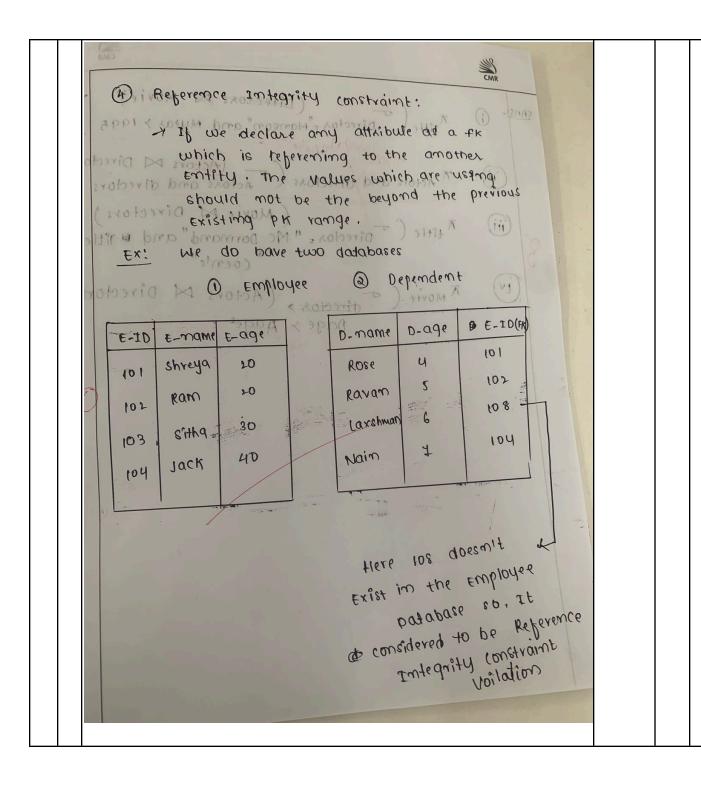


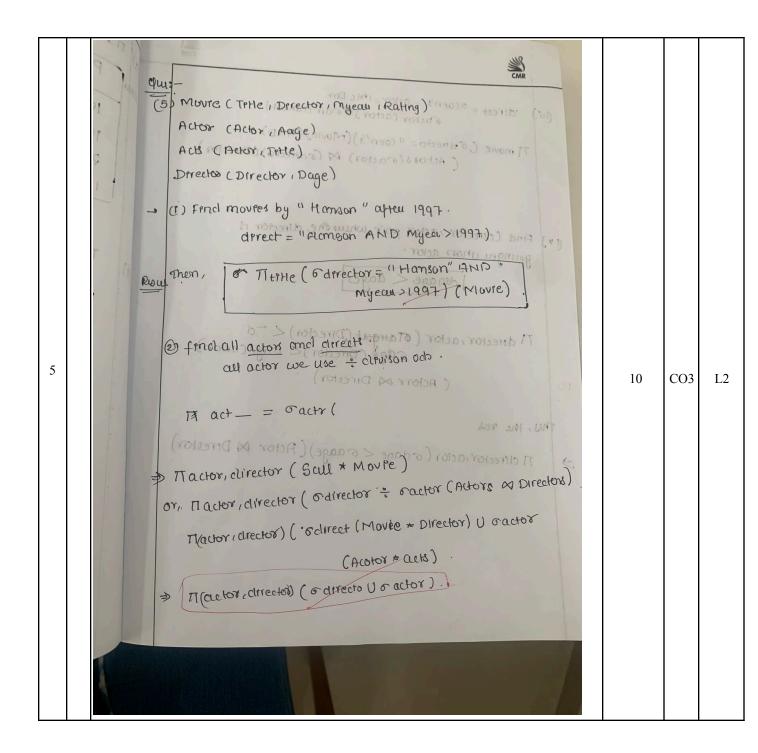
	Explain the four relational model constraints with an Example.				1
	1. Domain Constraint with example 2 Marks				
	2. Key Constraint with example 3 Marks				
4	3. Constraint on Null 2 Marks	10	CO1	L2	
	4. Referential integrity Constraint 3 Marks				١
	If they explain these constraint effects on Insert, update and delete will be the plus point along with definition of relational model constraints.				

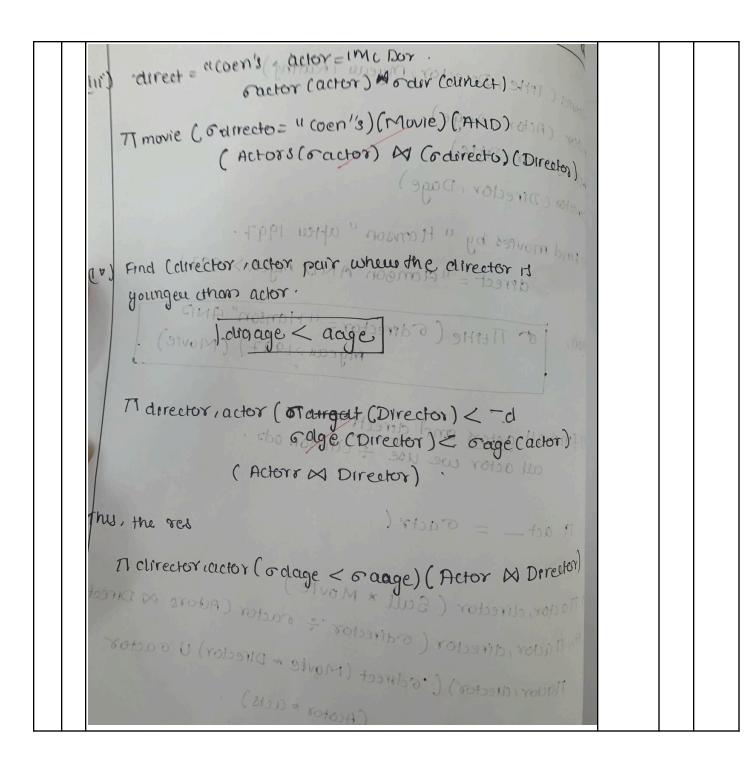
Domain constraint; popul p a trobragat there Each and Every attribute is délared with specified data type. That may be by me, waichar, Time-stamp, autoincrement etc... The attribute tements Idata must be within its pomain Declaration. and mo Ex: @ hets consider we have student Database Att contain many attributes like to they are also works student-10 int - student-name varchall esititors a student-age integititions warra Student-ID student-mame Student-age ishneya poroi pist 20007 or constraights 102 103 toripitation ptimps and It is not within the Domain range (voilation

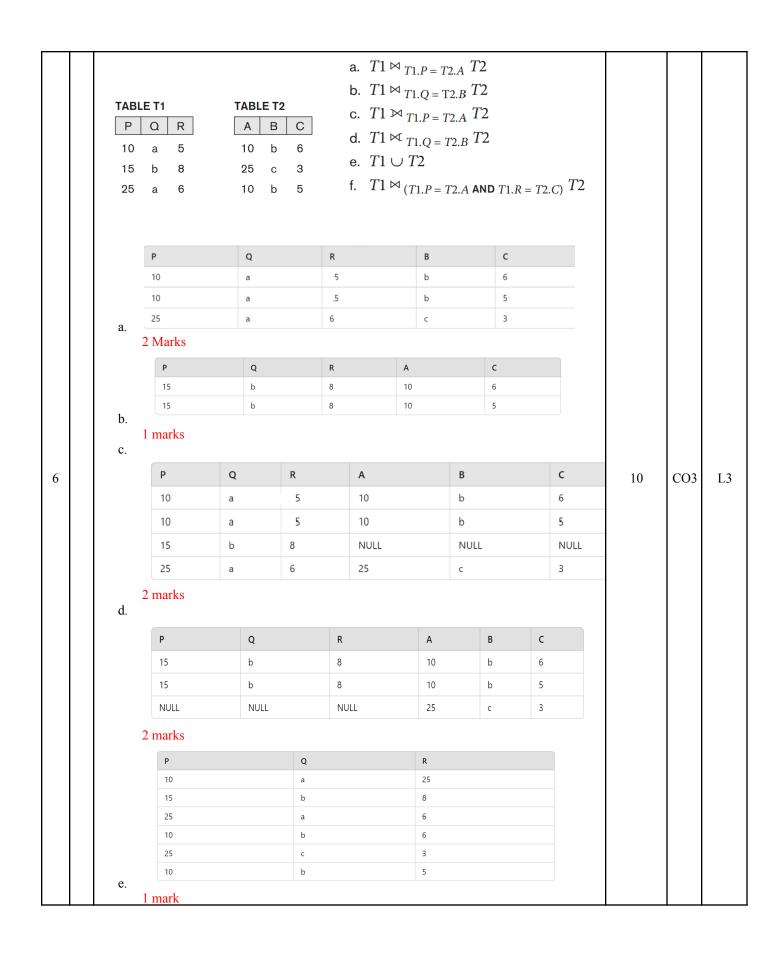












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	P	Q	R	В
	10	a	5	b
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