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Instances	and	Schomaz
" Old III Co	0110	00000000

- → collection of Information Stored in the DB act a particular moment is called an instance.
 - as called schema.
 - → Schema doesn't change frequently but data may change frequently → we have 3 types of schemas:
 - -> we have 3 types of schemas:

 Physical, logical, several view

 8chemas.
 - -> Programmers build apps by
 the help of logical schemas.
 - not affect alogical schema. That property is Physical clata inobservations.

Data Models

- It provides a way to describe the design of a DB at logical level.
- Jota model is a collection of conceptual tools for describing data, data relationships, datte semantics e consistency constraints.

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ex:- ER model, Relational	model,
object-oriented model.	6.0
LOCKTARLE	5-

Database languages

- 1) Doctor definition language (DDL)
 - It specifies the database schema.
 - Data manipulation banquage (DML)
 To express database queries and
 lepdates.
 - DOL
 - @ Tasks that DDL can do
 - CREATE
 - -> ALTER MAN
 - -> DROP
 - -> TRUNCATE
 - COMMENT IMMODICA
 - RENAMETHINGS
 - DML TAMAST TEST
 - 1) Tasks that DML can do
 - SELECT BUT IT A
 - INSERT
 - UPDATE
 - 7 DELETE
 - 4 MERGIE

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-> CALL	13, 12, 13
-> EXPLAIN PLAN	19/19
-> LOCK TABLE	
296 multiprise 12	odoteT .
3 Data Control Langua	ge (DCL)
Used to control peri	villges.
a grant of with the sail and	
Drasks that DCL co	indo
-> Ucrant permission	
> Revoke permission	
→ System - creating o	e session, table
	JOHN HARM
(4) Transaction Control	language (TCL)
used to sun the cl	rangles made
by DML statements	
933	Ha E.
Drasks that TCL ca	
→ COMMIT	7 6 4 7 1
- SAVEPOINT	2 2 2
→ ROLLBACK	
- SET TRANSACTION	TO THE PARTY OF TH
2	

eve the results.

* API is provided to send DML!

DDL statements to DB and retri-

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DBMS Application Architecture

a. T1 Architecture

on the same machine.

b. 72 Architecture

- → App is partitioned into 2 parts → API standards like ODBC & JDBC are used to interact between client and server.
- C. T3 Architecture
 - → App is partitioned into 3 logical components
 - -> client machine acts as a frontend and doesn't make any DB calls.
 - with App server and App server communicates with DB system
 - Well suited for WWW applicat-
 - integrity and security.