Database Basics:

ENTITY: Anything living or non-living, that has certain properties to which some values can be assigned. E.g: students, teachers ek.

FIELD:
(ATTRIBUTE) A column heading; property under which values are written. E.g: Zafar is a value of property "Name".
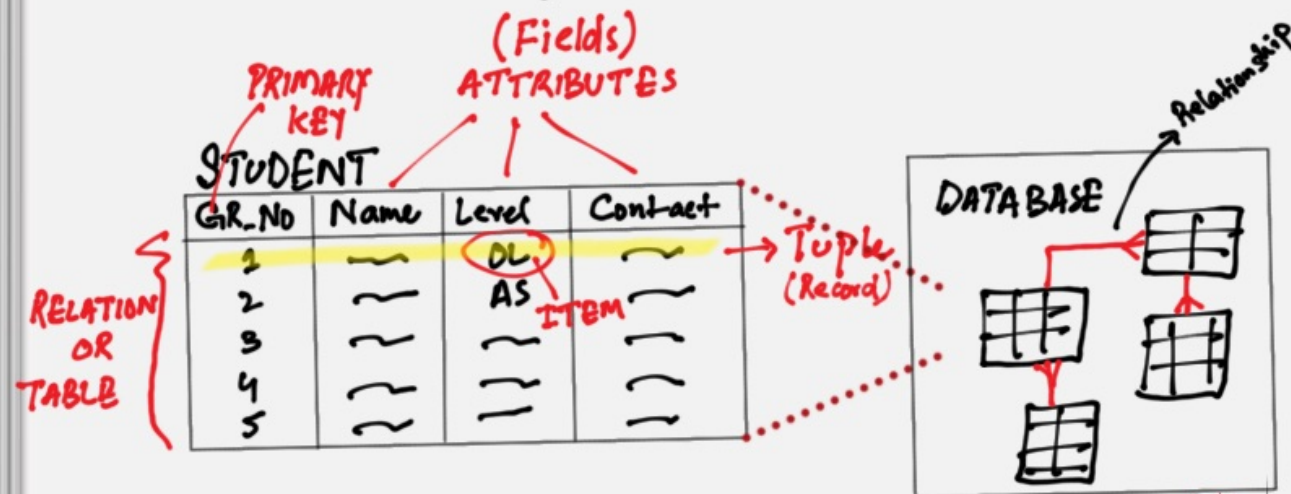
ITEM: The value written under the field, E.g: "Zafar".

RECORD:
(TUPLE) All the items (values) mentioned in a row. This record represents an "Entity" individually.

TABLE:
(RELATION) All the records in a file are collectively called "Table".
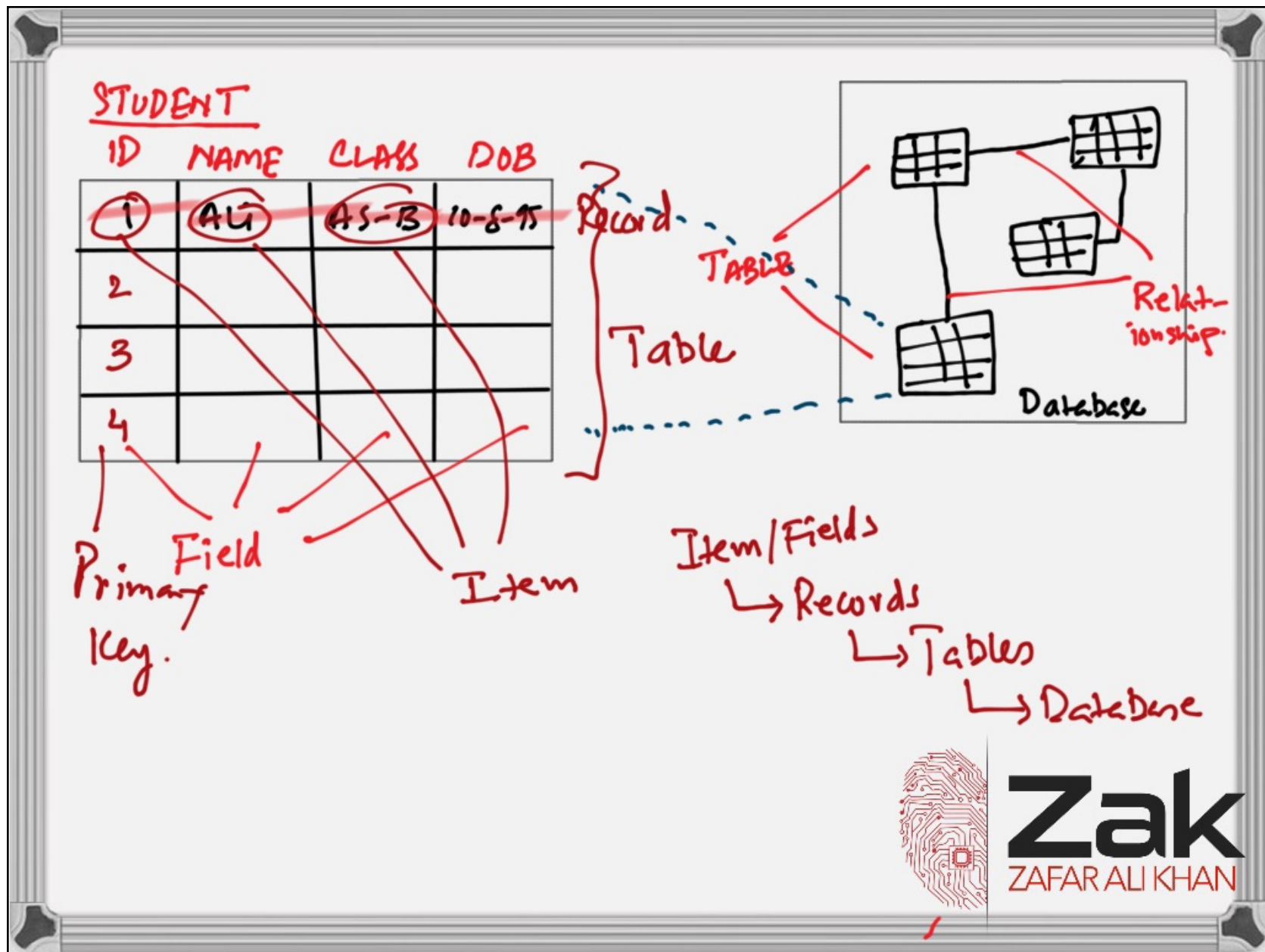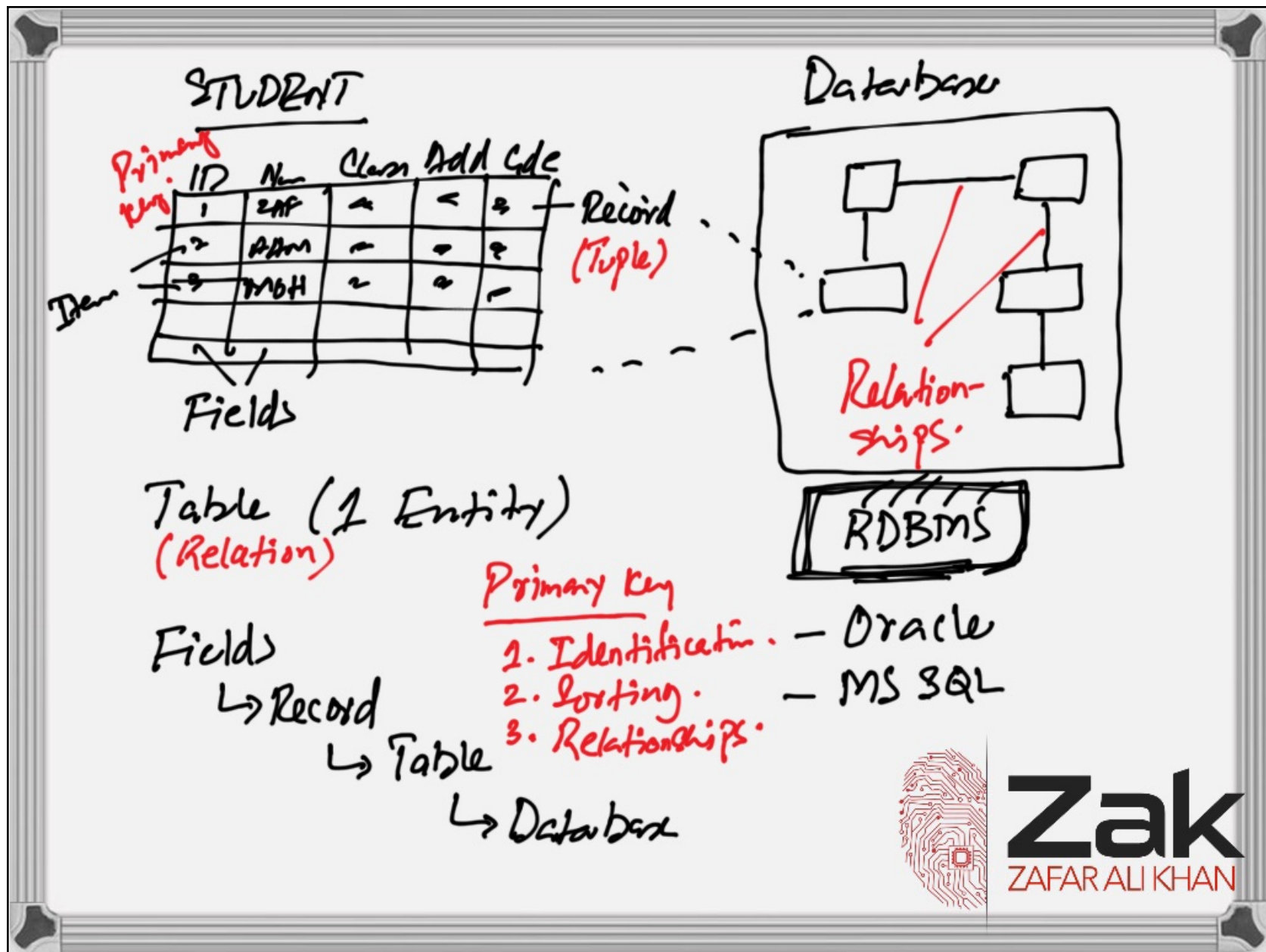
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ZAFAR ALI KHAN

PRIMARY KEY/KEY FIELD: A field whose items are unique for every record. It is mainly used for searching and Sorting of records.

DATABASE: Collection of all tables in a single system is 'DATABASE'.

STUDENT

ID	NAME	CLASS	DOB
1	ALI	A5-B	10-8-15
2			
3			
4			

Record

TABLE

Table

Relationship

Database

Primary Key.

Field

Item

Item/Fields
→ Records
→ Tables
→ DataBase

Zak
ZAFAR ALI KHAN

STUDENT

Database

Primary key

ID	Name	Class	Add	Code
1	ZAF	~	<	3
2	AAM	~	~	?
3	MBH	~	~	~

Item

Record (Tuple)

Fields

Relation-ships.

Table (1 Entity)
(Relation)

RDBMS

Fields
↳ Record
↳ Table
↳ Database

Primary Key
1. Identification. — Oracle
2. Sorting. — MS SQL
3. Relationships.

Zak
ZAFAR ALI KHAN

Key terms:

- Column/
  Field/Properties/Characteristics/Attribute.

- Item

- Record/
  Tuple

- Table/
  Relation

- Relationship

- Primary key

- Entity

— Relational Database Management System
  (RDBMS).