



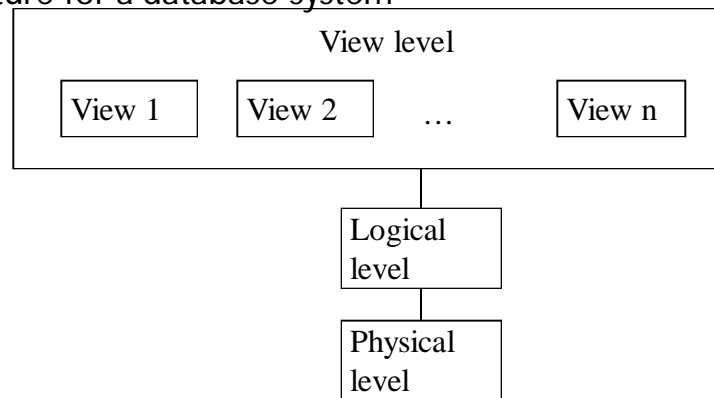
# View of Data

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# View of Data

An architecture for a database system





## Levels of Abstraction



- **Physical level**: describes how a record (e.g. customer) is stored.
- **Logical level**: describes data stored in database, and the relationships among the data.

```
type customer = record
    name: string;
    street: string;
    city: integer;
end;
```

- **View level**: application programs hide details of data types. Views can also hide information (e.g. salary) for security purposes.



## Instances and Schemas

- Similar to types and variables in programming languages
- Schema – the logical structure of the database (e.g., set of customers and accounts and the relationship between them)
- Instance – the actual content of the database at a particular point in time



THANK YOU