

① Abstraction

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Selecting necessary attributes & ignoring
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Examples

1] Student

Attribute

- Name
- Roll Number
- Age
- Gender
- Address
- Class
- Section
- Subject
- Attendance percentage

Abstraction in → School attendance system

- Name
- Roll number
- Class
- Section
- Attendance percentage

ignored : age, Gender, Subject etc.

2] Bank Account

Attribute

- Account holder name
- Account number
- IFSC code
- Bank Branch
- ATM PIN
- Mobile number
- PAN number

Abstraction in → ATM System

- Account number
- Balance
- PIN
- Mobile number

ignored : PAN, branch, IFSC code etc

b) Book

Attribute

- title
- Author
- publisher
- ISBN
- Edition
- price
- category

Abstraction in → online library Search System

- title
- Author
- category
- ISBN

ignored : price, publisher, edition etc

c) product

Attribute

- Product ID
- Name
- Brand
- price

- Manufacturing date
- Expiry date

Abstraction in → Billing System

- Product ID
- Name
- Price
- Quantity

Ignored : weight , dimensions, etc name etc

5] Patient

Full Attribute

- Name
- patient ID
- Age
- Gender
- Address
- Blood group
- Emergency contact
- Allergies

Abstraction in → Appointment Booking system

- Name
- patient ID
- contact number
- Age
- Gender

Ignored : Allergies , Blood group ,
Address etc.

6) Flight

Attribute

- Flight number
- Airline name
- pilot name
- co-pilot name
- duration
- total seats
- ticket price
- Available Seats
- departure time

Abstraction in → passenger Booking System

- Flight number
- Airline name
- Departure time
- ticket price
- Available seats

Ignored: pilot name, co-pilot name, duration,
total seats etc.

7) movie

Attribute

- Movie ID
- Title
- Director
- Producer
- Budget
- cast
- Genre
- Duration

- Language
- Rating
- country

Abstraction in → online movie ticket booking

- movie ID
- Title
- Genre
- Duration
- Language
- Rating

Ignored : Director, producer, country, cast &

8) Hotel Room

Attribute

- Room number
- Floor number
- Room type
- Bed type
- price
- wifi
- Balcony
- AC | Non- AC

Abstraction in → Online Hotel Booking

System

- Room number
- Room type
- Bed type
- price

- WiFi

ignored: Floor number, Balcony, AC/Non AC

g) Bus

Attribute

- Bus number
- Route number
- GPS location
- Ticket fare
- Driver name
- Conductor name
- Seating capacity
- AC/Non-AC
- Registration number

Abstraction in → Bus tracking APP

- Bus number
- Route number
- Ticket fare

ignored - Driver name, Conductor name, Seating capacity, AC/Non-AC, Registration No.

10) Restaurant Menu Item

Attribute

- Item ID
- Item name
- Ingredients
- Calories
- Price
- Chef name
- Available

Abstraction in → Food delivery app

- Item ID
- Item name
- price
- Availability

ignored : chef name, ingredients, calories