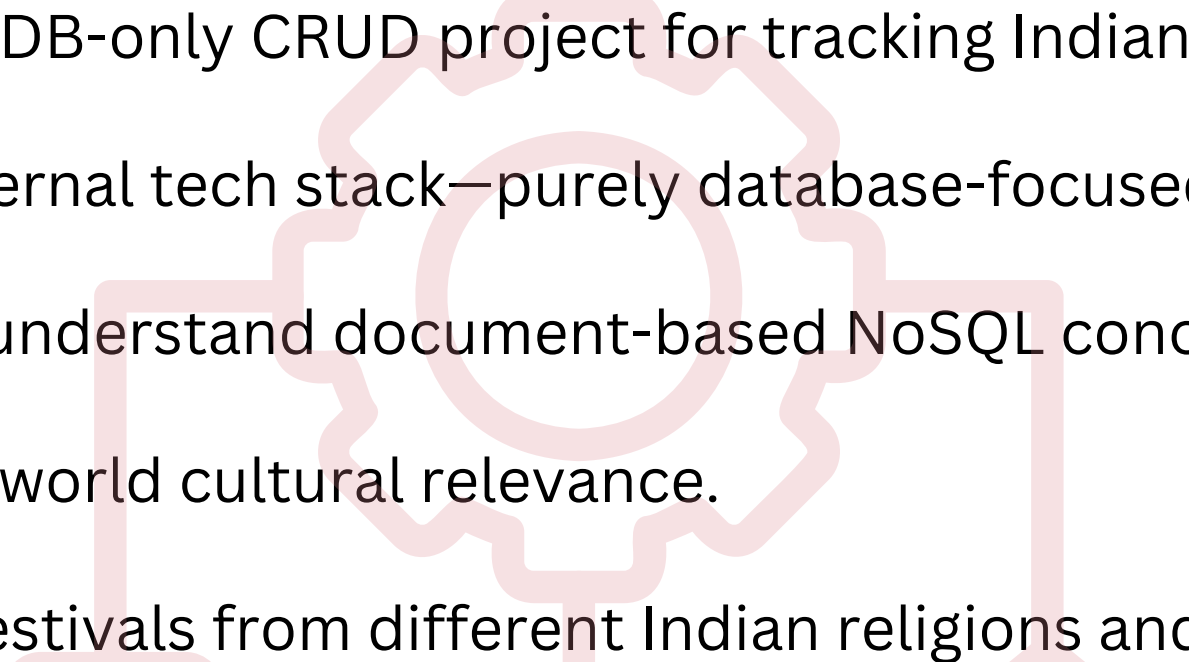


The image features decorative geometric patterns in the corners, consisting of overlapping triangles and polygons in shades of red, pink, and brown. The main text is centered in a large, black, sans-serif font.

Indian Festival Tracker (MongoDB CRUD Project)

Introduction to the Project

- ➡ MongoDB-only CRUD project for tracking Indian festivals.
 - ➡ No external tech stack—purely database-focused.
 - ➡ Helps understand document-based NoSQL concepts with real-world cultural relevance.
 - ➡ Uses festivals from different Indian religions and regions.
- 
- A decorative background graphic featuring a large, light pink gear-like shape in the center. Below the gear, there are three geometric shapes: a square on the left, a circle in the center, and a diamond on the right. These shapes are connected by thin lines, suggesting a flow or relationship. The entire graphic is rendered in a light pink color.

MongoDB Installation (Ubuntu/Linux)

- 1. `sudo apt update`
- 2. `wget -qO - https://www.mongodb.org/static/pgp/server-6.0.asc | sudo apt-key add -`
- 3. `echo "deb [arch=amd64] https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/6.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-6.0.list`
- 4. `sudo apt update`
- 5. `sudo apt install -y mongodb-org`
- 6. `sudo systemctl start mongod`
- 7. `sudo systemctl enable mongod`

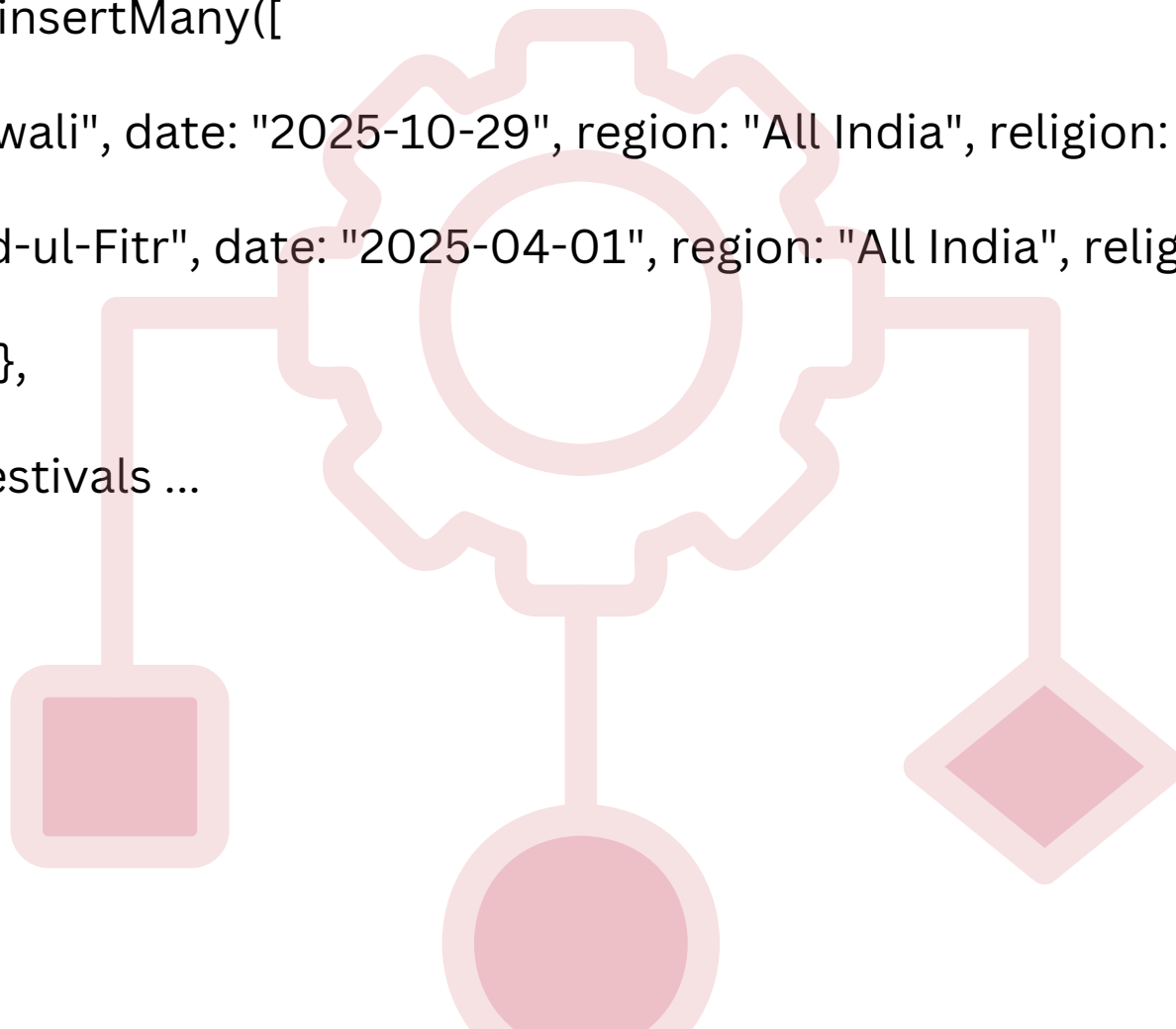
Creating Database & Collection

- use festivalDB;
- db.createCollection("festivals");



Insert Sample Festival Data

- `db.festivals.insertMany([`
- `{ name: "Diwali", date: "2025-10-29", region: "All India", religion: "Hindu", ... },`
- `{ name: "Eid-ul-Fitr", date: "2025-04-01", region: "All India", religion:`
`"Muslim", ... },`
- `... 8 more festivals ...`
- `]);`

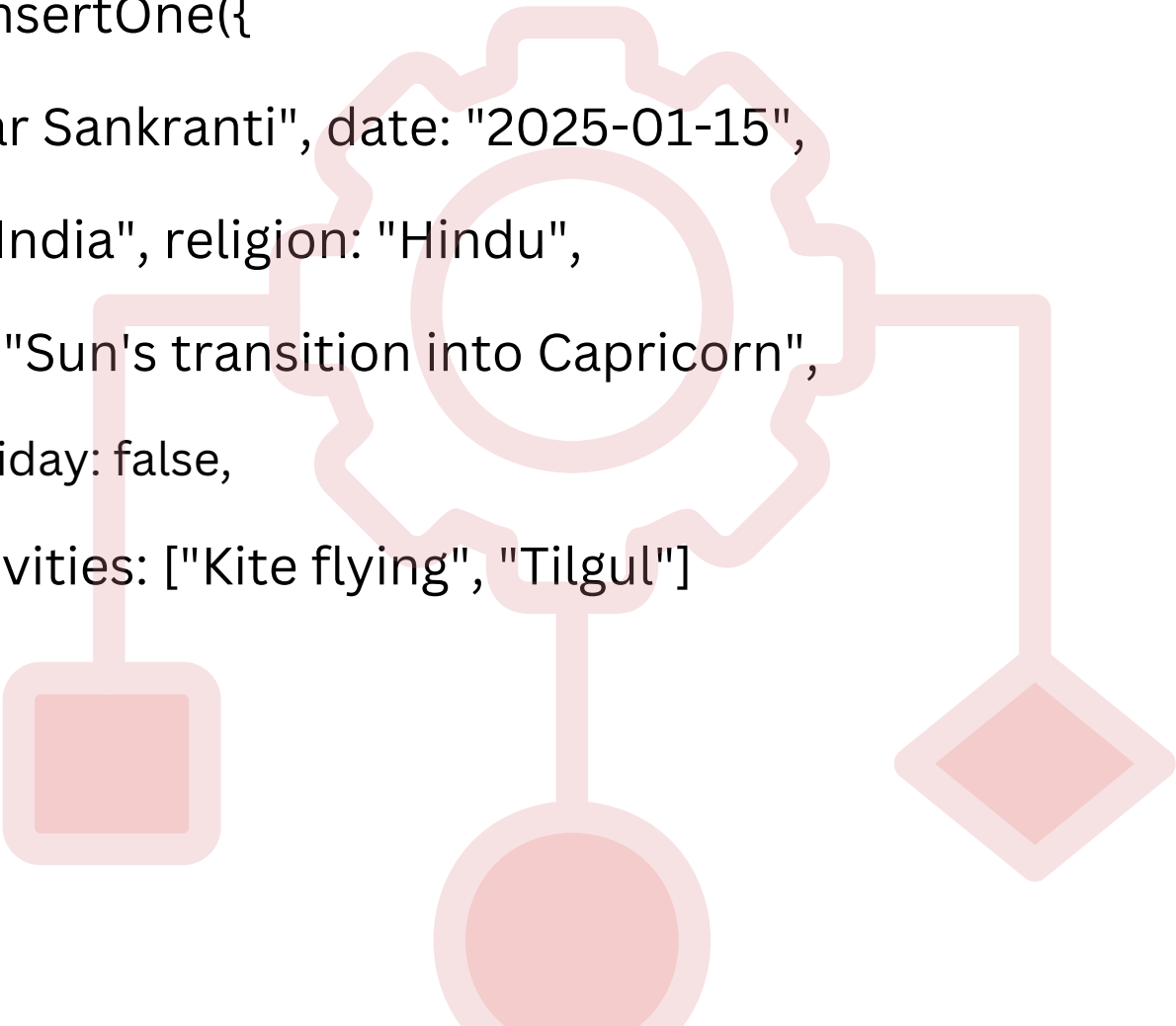


READ: Query Festival Data

- `db.festivals.find().pretty();`
- `db.festivals.find({ religion: "Hindu" }).pretty();`
- `db.festivals.find({ region: "Punjab" }).pretty();`
- `db.festivals.find({ date: { $gt: "2025-06-01" } }).pretty();`

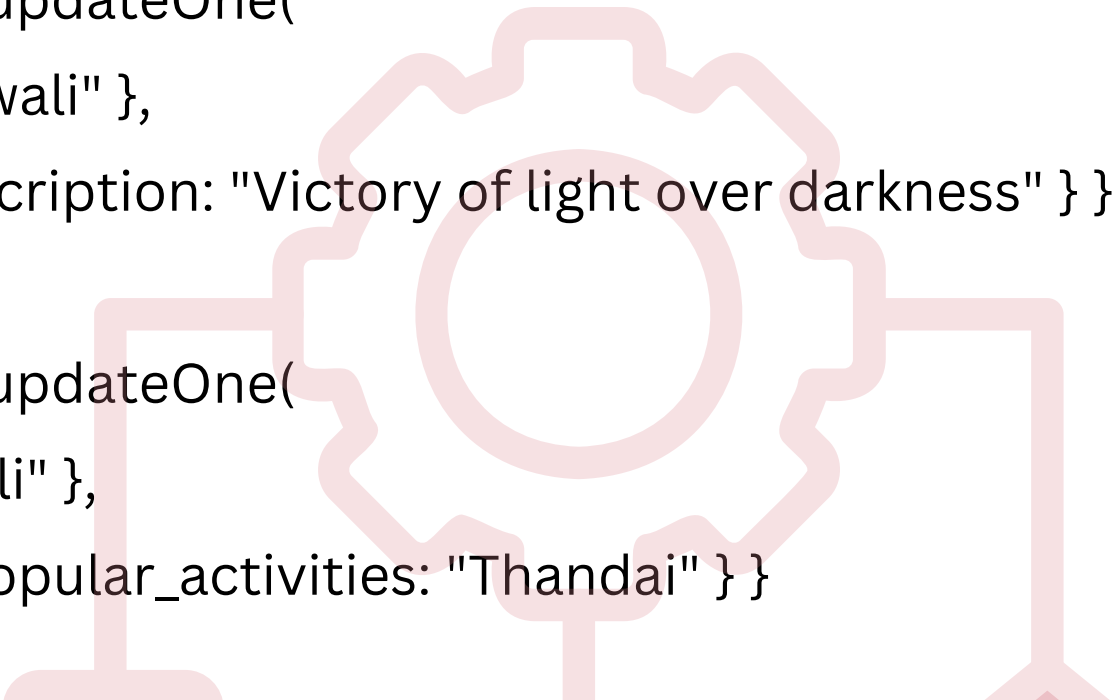
CREATE: Add Festival

```
db.festivals.insertOne({  
  name: "Makar Sankranti", date: "2025-01-15",  
  region: "Pan India", religion: "Hindu",  
  description: "Sun's transition into Capricorn",  
  is_national_holiday: false,  
  popular_activities: ["Kite flying", "Tilgul"]  
});
```

A decorative background featuring a large, light pink gear-like shape in the center. To the left of the gear is a square with rounded corners, and to the right is a diamond shape, both in a matching light pink color. Below the gear is a solid pink circle. The entire design is set against a light pink background with a thin vertical line on the left and right sides.

UPDATE: Modify Festival Data

```
db.festivals.updateOne(  
  { name: "Diwali" },  
  { $set: { description: "Victory of light over darkness" } }  
);  
db.festivals.updateOne(  
  { name: "Holi" },  
  { $push: { popular_activities: "Thandai" } }  
);
```

A decorative background graphic featuring a large, light pink gear-like shape in the center. To the left of the gear is a square with rounded corners, and to the right is a diamond shape, both with a double-line border. Below the gear is a solid pink circle. These shapes are connected by thin pink lines, creating a stylized mechanical or geometric design.

DELETE: Remove Festival(s)

```
db.festivals.deleteOne({ name: "Makar Sankranti" });  
db.festivals.deleteMany({ is_national_holiday: false  
});
```



Activities

- Insert 5 new festivals using `insertOne`
- Query by religion & region using `find()`
- Edit festival date/description using `updateOne()`
- Add activities with `$push`
- Remove festivals with `deleteOne` or `deleteMany`
- Bonus: Remove past festivals with `$lt` on `date`