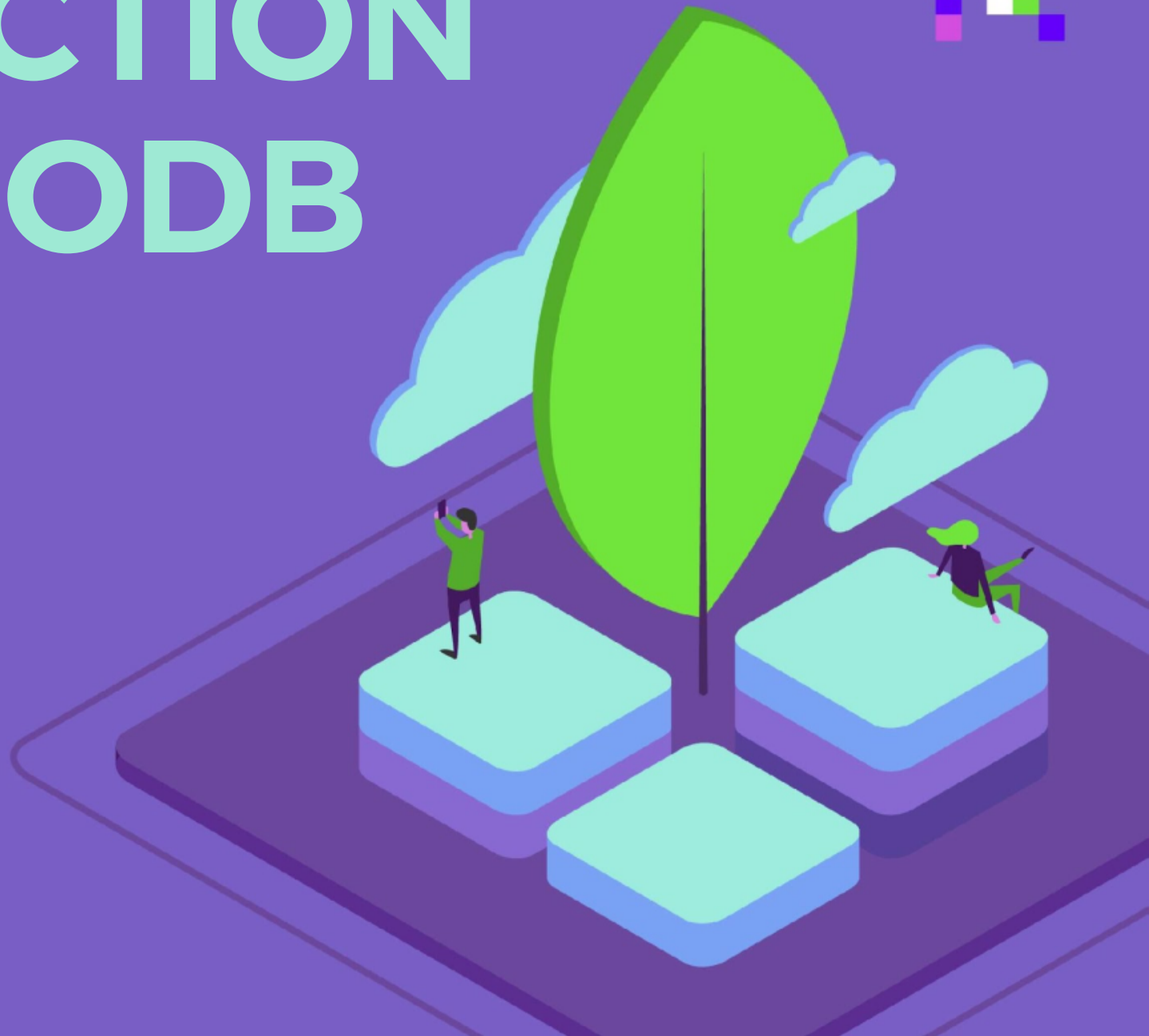


# INTRODUCTION TO MONGODB



# DATA Analysis



# Extracting Insights:

- Exploration
- Correlation

# Extracting Insights:

## Example: Exploration

Total Posts: 10,000

```
_id: ObjectId("5c9fee8966d8c1392df10eb3")
post_id: 7
user_id: 114
body: "Lorem ipsum dolor sit amet"
topic: "gaming"
likes: 428
dislikes: 130
views: 801
date_created: 2018-10-06T01:59:40.000+00:00
```

	Sports	Politics	Gaming
Number	1,483	3,792	4,725
Percentage	14.83%	37.92%	47.25%

# Extracting Insights:

## Example: Exploration

Total Purchases: 30,000

```
_id: ObjectId("5ca2ecd50dadcc5e8fccfc31")  
InvoiceNo: "536365"  
StockCode: "21730"  
Description: "GLASS STAR FROSTED T-LIGHT HOLDER"  
Quantity: 6  
InvoiceDate: 2010-01-12T08:26:00.000+00:00  
UnitPrice: 4.25  
CustomerID: "17850"  
Country: "United Kingdom"
```

	Quantity < 5	Quantity >= 5
Number	11,572	18,428
Percentage	38.57%	61.43%

# Extracting Insights:

## Correlation:

- Learning about how different fields are related to each other
- Combine two or more queries from our Exploration phase
- Explore distribution of documents among several conditions

# Extracting Insights:

## Example: Correlation:

- Total posts: 10,000
- Total posts created on or after 3/25/2018: 5,473
- Total posts created before 3/25/2018: 4,527

	Sports		Politics		Gaming	
Created on or after 3/25/2018	782	14.29%	2136	39.03%	2555	46.68%
Created before 3/25/2018	701	15.48%	1656	36.58%	2170	47.93%

# Extracting Insights:

## Example: Correlation:

- Total posts: 10,000
- Total posts with 100 likes or more: 4,249
- Total posts with fewer than 100 likes: 5,751

	Sports		Politics		Gaming	
Received 100 likes or more	581	13.67%	2,936	69.10%	732	17.23%
Received Less than 100 likes	902	15.68%	856	14.88%	3,993	69.43%