**BIG DATA AND MODERN DATABASE SYSTEMS**

**CA -1 Portions**

**Syllabus Topic Coverage for CA1**  
**OBJECT DATABASES:** Object Oriented Databases - Complex data types - Structured types and Inheritance - Query Processing in Object databases -

**DATA MODELING FOR BIG DATA:** Big Data and Challenges, Big Data models, NoSQL data models, Basic principles of NoSQL models, SQL databases Vs NoSQL databases

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| **Book References** | |  |
| **S.no** | **Topic** | **Link** |
|  | **Drive Link** | **https://drive.google.com/drive/folders/1yOy3V4tMpJNq7io6BzbRQebA-F6Ws5bb?usp=sharing** |
|  | Book Links | https://drive.google.com/drive/folders/1Y2xKTOC-iKVKvnJhR-8OuAZ7MsRIZTj8?usp=sharing  https://drive.google.com/file/d/1OPxt91LAuQbmzGLP6ykyg5JXW2mEgNx5/view?usp=sharing |
| 1 | OBJECT DATABASE | https://docs.google.com/presentation/d/1tEZZuGgqHSym-J0Sj3O5DYCBZZnpl6ZL/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| https://docs.google.com/presentation/d/1v9bBdusIJ\_b-qpHrMJsAVlVF5aoJVlK-/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| 2 | Distributed Database | https://docs.google.com/presentation/d/1N6FbSj-MGerCqPBdt2AzSlvi-ej-wpWH/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| https://docs.google.com/presentation/d/1SQzmND0Q-Zdydi0bh1e3YYkkYXtyJ76R/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| 3 | Parallel Database | https://docs.google.com/presentation/d/16HpRpXz2pUh6LyKVHe2xQFuMuN0NMoxR/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| 4 | Query Optimization | https://docs.google.com/presentation/d/18aaDQSse49LAF8ugz4iqAH5kf6My4BBI/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| 5 | Data MODELING FOR BIG DATA | https://docs.google.com/presentation/d/1EQppSfw3ZZJoBk6W2b22ZFQw7-LDh9lV/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| 6 | CAP and Base Theorem | https://docs.google.com/presentation/d/1hz\_t8ebWA-Z7R16BTaLqkQzvihY\_6gDM/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |
| 7 | NoSQL data models, Basic principles of NoSQL models, SQL databases Vs NoSQL databases | https://docs.google.com/presentation/d/1I72MCFrR9KNQmuaILHZz2YNpZfqmo6sJ/edit?usp=sharing&ouid=111231193731952555201&rtpof=true&sd=true |