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|  | **Question Bank : Module 3** |
| 1 | With a neat diagram explain data distribution models in SQL x |
| 2 | Illustrate the key value pairs in data architectural patterns with an example |
| 3 | Explain the various data distribution models in NOSQL |
| 4 | Explain key value data model in detail with an example |
| 5 | Discuss the NoSQL data stores and their characteristic features |
| 6 | How a node failure can be handled in Hadoop explain |
| 7 | Explain BASE properties and CAP theorem |
| 8 | Expalin characteristics of schemaless models |
| 9 | Write a note on XML document pattern |
| 10 | List and compare the features of BIGTABLE,RC,ORC, and parquet data stores |
| 11 | What are the different ways to handle bigdata problems |
| 12 | Discuss the functions of Group By, partitioning and combining using one example for each |
| 13 | Assume **Preeti** gave examination in Semester 1 in 1995 in four theory and practical subjects. She gave examination in five subjects in Semester 2 and so on in each subsequent semester. Another student, **Kirti** gave examination in Semester 1 in 2016 in four subjects, out of which two was theory and two were practical subjects. Presume the subject names and grades awarded to them.  i)Write two CSV files for cumulative grade-sheets for both the students. Point the difficulty during processing of data in these two files.  ii) Find the number of key value pair  iii) Write the JSON format and discuss the difficulty in involved in using CSV,JSON formats. |
| 14 | i) Assume in memory columnar storage. Data for a large number of ACVMs is stored selling 6 flavours of chocolate. How to the column key value store in memory?  ii) Write 5 XPath expression representing C1 as root and D1=10 |
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|  | **Question Bank : Module 4** |
| 1 | Describe the MapReduce execution steps with neat diagram |
| 2 | Discuss the functions of MangoDB query language and database commands |
| 3 | Illustrate the CQL commands and their functionality |
| 4 | Explain in detail mongodb, Casandra db |
| 5 | Expalin usage of MongoDB, Casandra, Riak,, Couch and Oracle NOSQL db. |
| 6 | Write differences between RDBMS, MongoDB,Casandra,NOSQL |
| 7 | Illustrate main features and Architecture of Hive with neat diagram. |
| 8 | Explain builtin functions of HIVE |
| 9 | Explain DDL of HIVEQL using toy manufacturing as an example |
| 10 | With a neat diagram explain HIVE integration and workflow steps |
| 11 | Discuss the pig Latin data types and examples |
| 12 | What are the applications and features of Apache Pig |