University Question Bank

A compilation of important questions for review

Question 1:

Briefly describe the value of Relational databases. Write a short notes on : i) Consequences of aggregate Orientation?

Question 2:

What are three properties which cannot be simultaneously guaranteed??

Question 3:

Design a database schema using NoSQL principles for a student database.?

Question 4:

What factors should be considered when deciding whether to use NoSQL or traditional relational databases for a particular project??

Question 5:

Define quorum. Explain read quorum and write quorum with examples. Explain the following: i) Single Server?

Question 6:

Write a note on i) Peer to Peer Consistency ii) Replication   Page | 2?

Question 7:

What are four categories of NoSQL databases??

Question 8:

What is the CAP theorem??

Question 9:

Define impedance mismatch. Briefly explain the advantages of relational databases.?

Question 10:

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What are schema less databases??

Question 11:

Differentiate between key value and document-oriented data models.   Use the above graphical representation and answer the following questions with justification.?

Question 12:

Explain about graph databases with a neat diagram.?

Question 13:

4 Which data model does not support aggregate orientation??

Question 14:

How are they different from views??

Question 15:

ii) Key-Value Data model iii) Document Data Model?

Question 16:

What are four categories of NoSQL databases? List some database products for   each category. Module - 2: Generics Q. Questions BCL Cos No.?

Question 17:

document and forgets to save the file. On the other end Bob updates the Google sheet and saves the file. The content updated by Alice is overwritten by Bob. The data updated by Alice is lost.?

Question 18:

What are schema less databases? Explain.?

Question 19:

Compare the similarities and differences between single server and master slave   data distribution model.?

Question 20:

Describe the data arrangement and access in column family data store with   example.?

Question 21:

What is NoSQL?   Explain briefly about aggregate data models with a neat diagram and considering?

Question 22:

an example of relational model and aggregate data model.?

Question 23:

What is the CAP theorem? What are three properties which cannot be simultaneously guaranteed? How it is applicable to NoSQL Systems.?

Question 24:

Explain the evolution of databases from object oriented to NOSQL databases.?

Question 25:

Why data distribution is important. List the different data distribution models of NOSQL. Identify the type of conflict in the following scenario. How can it be solved? Alice and Bob share a common google sheet Online Both read the file. Alice updates the?

Question 26:

Which data model does not support aggregate orientation? Give the reason.?

Question 27:

TOTAL LECTURE HOURS 40

FACULTY NAME Dr. Rama Satish K V, NO. OF TIMES HANDLED 01

Module -1: Why NoSQL, Aggregate Data Models and More on Data Models

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Questions BCL Cos

No.

1 What is NoSQL??

Question 28:

How can it be solved??

Question 29:

List and explain the approaches through which version stamps can be constructed   for a single authorifative source for data models.?

Question 30:

Define write quorum, read quorum, replication factor along with their expressions.?

Question 31:

i) Relaxing consistency ii) CAP theorem iii) Relaxing durability?

Question 32:

Define materialized view. How are they different from views? Briefly explain the   two main strategies to build a materialized view. Subject: 21AI745 - NoSQL DATABASE Question Bank?

Question 33:

Differentiate SQL and NOSQL.?

Question 34:

ii) Replication iii) Sharding iv) Combining sharding and replication Explain the following with respect to consistency in NoSQL?

Question 35:

i) Who listens to rock music and works for D? ii) Who works for D and has a married

colleague? iii) Who listen to rock music? iv) How are A and S related to each other and also to C? v) What are the genders of C and A??