


Course No: SWE5428
Course Title: Advanced Database
Date: 29/11/2017
No. of Questions: (3)
Time: 1 hour
Using Calculator (No)

University of Palestine

2nd Midterm Exam
1st Semester 2017/2018
Total Grade:15

Instructor Name: Dr. Mohammed Awad
Student No.: _____
Student Name: _____
College Name: Engineering
Dep. / Specialist: Software Eng.
Using Dictionary (No)

Question One:

(3 marks)

Define each of these terms:

Hive

HDFS

Drill-down reporting

Question Two:

(6 marks)

Assume that you are using Hive over Hadoop as a framework for implementing DW projects. You want to find users who tend to visit good pages. Based on the “Visits” and ”Pages” tables shown below, answer (a) and (b).

Visits

user	url	time
Amy	www.cnn.com	8:00
Amy	www.crap.com	8:05
Amy	www.myblog.com	10:00
Amy	www.flickr.com	10:05
Fred	cnn.com/index.htm	12:00

⋮

Pages

url	pagerank
www.cnn.com	0.9
www.flickr.com	0.9
www.myblog.com	0.7
www.crap.com	0.2

⋮

Course No: SWE5428
Course Title: Advanced Database
Date: 29/11/2017
No. of Questions: (3)
Time: 1 hour
Using Calculator (No)

University of Palestine



2nd Midterm Exam
1st Semester 2017/2018
Total Grade:15

Instructor Name: Dr. Mohammed Awad
Student No.: _____
Student Name: _____
College Name: Engineering
Dep. / Specialist: Software Eng.
Using Dictionary (No)

-
- a) Sketch the conceptual data flow diagram that joins the two tables to find users who tend to visit good pages.
- b) Sketch two par diagrams that show the performance difference between using Java Vs. Pig Latin to implement such task. (Hint: one diagram should handle the number of lines of code, while the other handles the development time)

Course No: SWE5428
Course Title: Advanced Database
Date: 29/11/2017
No. of Questions: (3)
Time: 1 hour
Using Calculator (No)

University of Palestine



2nd Midterm Exam
1st Semester 2017/2018
Total Grade:15

Instructor Name: Dr. Mohammed Awad
Student No.: _____
Student Name: _____
College Name: Engineering
Dep. / Specialist: Software Eng.
Using Dictionary (No)

Question Three:

(6 marks)

Views and data warehouses are alike in that they both have read-only extracts from the databases. However, data warehouses have core differences over views. Within three (3) points, explain the differences between views and data warehouses.

End of Questions