Mount Kenya University

Answer question One and any other Two Questions

1. a) Define the following.   (5 Marks)

    i.   Data management.

    ii.   End bar data.

    iii.   Metadata.

    iv.   Database

    v.   DBMS

    b) Explain THREE classes of a basic SQL structure.   (3 Marks)

    c) With example define create with command syntax.   (5 Marks)

    d) What are aggregations?   (2 Marks)

    e) Explain different types of relational keys.   (5 Marks)

    f) What is Normalization?   (3 Marks)

    g) Explain logical data independence.   (3 Marks)

    h) Define different subclass viewpoint.   (4 Marks)

2. a) Discuss with examples the E-R model. Examples should be based in a
    perception over a real world solution.   (20 Marks)

3. a) Discuss various major components of DBMS system.   (10 Marks)

    b) Discuss with examples various aggregations functions.   (10 Marks)

4. a) Explain the three levels of architecture of DBMS.   (12 Marks)

   b) Explain the two levels of data independence from conceptual to external level.

   (8 Marks)

5. Discuss the architecture of a RDBMs system.   (20 Marks)