

April - 2016

TYBCC Sem VI

IT

Dataware

Housing.

203

QP Code : 26922

(2½ hours)

Total Marks: 75

- N. B.: (1) All questions are compulsory.
(2) Make suitable assumptions wherever necessary and state the assumptions made.
(3) Answers to the same question must be written together.
(4) Numbers to the right indicate marks.
(5) Draw neat labeled diagrams wherever necessary.
(6) Use of Non-programmable calculators is allowed.

1. Attempt any two of the following:

- a. State and justify the characteristics of a Data Warehouse with suitable examples. 10
b. Differentiate OLTP and OLAP.
c. Discuss the different types of facts with respect to measures stored in the fact table in a Data Warehouse.
d. Why a dimension is called Slowly changing dimension? Explain.

2. Attempt any two of the following:

- a. What is the relationship between OWBSYS and Oracle Warehouse Builder? 10
b. i) Name and define the utility that has to be configured before creating an Oracle database.
ii) Draw a neat diagram that illustrates the various components of OWB.
c. What is the significance of HS parameters in the heterogeneous service configuration file?
d. Explain the term module with reference to design of a DW in a Design Center.

3. Attempt any two of the following:

- a. Explain the relational implementation of a dimensional model - Star Schema. 10
b. Name and explain the objects that are relational and dimensional objects in an Oracle module.
c. Every dimension has four characteristics that have to be defined in OWB. What are they?
d. Explain the tabs Name, storage, Attributes, Levels and Hierarchies in Editor Window of any object that is currently being edited.

4. Attempt any two of the following:

- a. What is ETL? Explain with an example. 10
b. Explain the data flow operators
i) Aggregator
ii) Joiner
iii) Expression
c. What is a Set in the Keys tab in the Table Editor window in OWB?
d. Explain the Indexes and Partitions tab in the Table Editor.

5. Attempt any two of the following:

- a. Discuss any three transformation operators used in ETL processing. 10
b. What is the role of a LOOKUP operator in a mapping?
c. Explain Full and Intermediate generation styles.
d. i) Validation will result in one of the three possibilities. What are they?
ii) Mention the five default operating mode of the mapping.

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6. Attempt *any two* of the following:

- a. What are the different operations that can be performed on a snapshot of an object that is created?
- b. What happens if, let's say for example, a table definition is updated after we have defined it and created a mapping or mappings that included it?
- c. What is the difference between ROLAP and MOLAP?
- d. Illustrate data explosion with reference to data storage in Data Warehouse.

7. Attempt *any three* of the following:

- a. Explain Snow Flake Schema with an example.
- b. The first step required in making use of Oracle Heterogeneous Services used to access a Non-Oracle database is to create an ODBC connection. How is this connection established?
- c. Define and explain the term staging with respect to ETL processing.
- d. Differentiate Surrogate identifier and Business identifier with suitable examples.
- e. The process of building the DW from the model created in the Warehouse Builder involves Deploying and Executing. Discuss.
- f. Explain the change management related tool - the Metadata Loader.

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