

Data Warehouse

- 1 Attempt *any two* of the following. 10**
- a State and justify the characteristics of a Data Warehouse with suitable example.
 - 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 is a dimension called slowly changing dimension? Explain.
- 2 Attempt *any two* of the following. 10**
- a What is a relationship between OWBSYS and Oracle Warehouse Builder?
 - b Solve following:
 - 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 component of OWB.
 - c What is the significance of HS parameters in the heterogeneous service configuration file?
 - d Explain the term module with reference to the design of a DW in Design Center.
- 3 Attempt *any two* of the following. 10**
- a Explain the relational implementation of a dimensional model – star schema.
 - b Name and explain the object that are relational and dimensional objects in 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. The window of any object that is currently being edited.
- 4 Attempt *any two* of the following. 10**
- a What is ETL? Explain with an example.
 - b Explain the data flow operators.
 - i) Aggregator.
 - ii) Joiner.
 - iii) Expression.
 - c What is 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. 10**
- a Discuss any three transformation operators used in ETL processing.
 - b What is the role of a LOOKUP operator in a mapping?
 - c Explain Full and Intermediate generation styles.
 - d Solve the following.
 - 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.

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- 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.

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- 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 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 toll- the Metadata loader.

