

# SHREE H. N. SHUKLA GROUP OF COLLEGES

(AFFILIATED TO SAURASHTRA UNIVERSITY)



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## Data Warehousing with SQL Server 2012

### Unit - 1 Introduction to Data Warehousing

#### Q-1 Any 4. (4 marks)

##### March - 2019 (BCA)

(1) What is DWH?.

Ans:- Data warehouse. It is a place where you can store current and historical data.

(2) Give the full form of DDS.

Ans:- dimensional data store

(3) What is a stage in data store?

Ans:- A stage is an area between data source and the data destination. It is a place which is used for data processing during the extract, transform and load (ETL) process.

(4) What is third party data?

Ans:- Third-party data is collected by entities that often do not have a direct relationship with end users. To obtain third party data, you need to purchase it from data providers. You can find these providers through DMP(data management platforms)

##### March - 2020 (BSCIT)

(1) Give the full form of MDM.

Ans:- Master Data Management

(2) Give the full form of CRM.

Ans:- Customer Relationship Management

(3) Give the full form of ROLAP.

Ans:- Relational Online Analytical Processing

(4) Give the full form of SOA.

Ans:- Service Oriented Architecture

##### March - 2020 (BCA)

(1) Give the full form of EDW.

Ans:- Enterprise data warehouse

(2) Give the full form of ODS.

Ans:- operational data store

(3) Give the full form of CRM.

Ans:- Customer Relationship Management

(4) Give the full form of OLTP.

Ans:- Online Transactional Processing

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## Unit - 2 Designing and Implementation of Data Warehouseing

### March - 2019 (BCA)

(1) Give the full form of UID.

Ans:- unique identifier

(2) Logical design entity known as \_\_\_ in physical design.

Ans:- Tables

(3) What is Table space?

Ans:- It is a collection of data files.

(4) What is Role playing dimension?

Ans:- A table with multiple valid relationships between itself and another table is known as a role-playing dimension. Basically, if the same dimension is used more than once with different names in the cube then it is called the role- playing dimension.

### March - 2020 (BSCIT)

(1) At the time of physical design process, you have to map attributes with \_\_\_\_\_.

Ans:- Columns

(2) \_\_\_ is a central table in a star schema of a data warehouse.

Ans:- Fact table

(3) Column Data types only includes in physical design.

Ans:- True

(4) A \_\_\_\_\_ is a schema object that defines hierarchical relationship between columns of column sets.

Ans:- A dimension

### March - 2020 (BCA)

(1) Give the full form of UID.

Ans:- unique identifier

(2) Give the full form of OLTP.

Ans:- Online Transaction Processing

(3) Give the full form of SSAS.

Ans:- SQL Server Analysis Services

(4) What is Table space?

Ans:- It is a collection of data files.

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## Unit - 3 Creating ETL Solutions with SSIS, Implementing Control Flow in SSIS

### Q-1 Any 4. (4 marks)

#### March - 2019 (BCA)

(1) Give the full form of ETL.

Ans:- Extract, Transform and Load

(2) Give the full form of SSIS.

Ans:- Sql Server Integration Services

(3) Give the full form of SSDT.

Ans:- SQL Server Data Tools

(4) Give the full form of DTS.

Ans:- Data transformation services

#### March - 2020 (BSCIT)

(1) What is default container?

Ans:- Task host container

(2) Give the full form of SSIS.

Ans:- Sql Server Integration Services

(3) Give the full form of SSMS.

Ans:- Sql Server Management Studio

(4) Give the full form of ETL.

Ans:- Extract, Transform and Load

#### March - 2020 (BCA)

(1) Give the full form of ETL.

Ans:- Extract, Transform and Load

(2) Give the full form of SSIS.

Ans:- Sql Server Integration Services

(3) Give the full form of SSDT.

Ans:- SQL Server Data Tools

(4) Give the full form of DTS.

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## Unit - 4 Enforcing Data Quality, Extending SQL Server Integration Services

### Q-1 Any 4. (4 marks)

#### March - 2019 (BCA)

(1) Full form of DQS.

Ans:- Data Quality Service

(2) Give the full form of DQAF.

Ans:- Data Quality Assessment Framework

(3) What is the use of SSIS Script task?

Ans:- SSIS script task allows to add functionality to SSIS package.

(4) \_\_\_\_\_ is used to generate log messages as well as other logics related to packages and SSIS.

Ans:- Script task

#### March - 2020 (BSCIT)

(1) Give the full form of DQS.

Ans:- Data Quality Service

(2) Each matching rule is saved in the \_\_\_\_\_ when it is created.

Ans:- knowledge base

(3) SSIS Script task support \_\_\_\_\_ and \_\_\_\_\_ language.

Ans:- C# and VB

(4) Give the full form of DQAF.

Ans:- Data Quality Assessment Framework

#### March - 2020 (BCA)

(1) Give the full form of DQS.

Ans:- Data Quality Service

(2) Give the full form of DQAF.

Ans:- Data Quality Assessment Framework

(3) Give the full form of GDPR.

Ans:- General Data Protection Regulation

(4) What is the use of SSIS Script task?.

Ans:- SSIS script task allows to add functionality to SSIS package.

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## Unit - 5 Deploying and Configuring SSIS Packages, Consuming Data in Data Warehouse

### Q-1 Any 4. (4 marks)

#### March - 2019 (BCA)

(1) Give the full form of SSIS.

Ans:- Sql Server Data tool

(2) What is SQL CLR?

Ans:- SQL Common Language Runtime (Structure Query Language Common Language Runtime)

(3) Give the full form of BML.

Ans:- Business Intelligence Markup Language

(4) Give the full form of BIDS.

Ans:- Business Intelligence Development Studio

#### March - 2020 (BSCIT)

(1) Give the full form of BI.

Ans:- Business Intelligence

(2) Give the full form of OLAP.

Ans:- Online Analytical Processing

(3) Give the full form of KPI.

Ans:- Key Performance Indicators

(4) Give the full form of SSRS.

Ans:- SQL Server Reporting Services

#### March - 2020 (BCA)

(1) Give the full form of BML.

Ans:- Business Intelligence Markup Language

(2) What is SQL CLR?

Ans:- SQL Common Language Runtime (Structure Query Language Common Language Runtime)

(3) Give the full form of BIDS.

Ans:- Business Intelligence Development Studio

(4) What is package?

Ans:- A package is an organized collection of connections, control flow elements, data flows elements, event handlers, variables, parameters and configuration.

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## Chapterwise MCQ

### Chapter - 1

Q-1 What is Data Warehouse?

Question :	Answer :
(1) Give the full form of DWH.	Data Warehouse
(2) Give the full form of EDW.	Enterprise Data Warehouse
(3) Data Warehouse term was first used in	1990
(4) OLAP stands for _____	Online Analytical Processing
(5) _____ is a simple form of data warehouse that is focused on a single subject.	Data mart
(6) Data Warehouse features _____	(1) Subject Oriented (2) Integrated (3) Time-Variant (4) Non Volatile
(7) In DWH Non Volatile means _____	Here the previous data is not removed when new data is added to it.

Q-2 Data Ware housing Today.

(1) What is Data Ware housing?	The process of constructing and using the data ware house.
(2) Types of Date Ware house applications.	(1) Information processing (2) Analytical processing (3) Data Mining

Q-3 Future trends in Data Warehousing.

(1) Give the full form of BI.	Business Intelligence
(2) IOT stands for _____	Internet Of Things
(3) AWS stands for _____	Amazon Web Services

Q-4 Data Warehouse Architecture

(1) ODS stands for _____	Operational Data Store
(2) ETL stands for _____	Extract, Transform and Load
(3) ETL is _____	Data Integration Tool
(4) GUI stands for _____	Graphical User Interface

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Q-5 Data Flow Architecture.

(1) NDS stands for _____	Normalized Data Store
(2) DDS stands for _____	Dimensional Data Store
(3) MDB stands for _____	Multidimensional Database
(4) ODS stands for _____	Operational Data Store

## Chapter - 2

### (1) Logical Design for data warehouse & Physical Design for data warehouse

Question :	Answer :
(1) What is entity?	Entity represent a chunk of data warehousing schemas information
(2) What is attribute?	Attribute is a component of an entity that helps define the uniqueness of the entity.
(3) Which are two different designs of data warehousing?	Logical design and Physical design
(4) How can you convert physical design?	You can convert the logical design into physical design by using database structures.
(5) When you convert Logical design to Physical design then Entities called _____	Tables
(6) When you convert Logical design to Physical design then Attributes called _____	Columns

### (2) Physical Design Structures

Question :	Answer :
(1) What is table space?	It is a collection of data files.
(2) What is view?	It is a collection of one or more table or view.
(3) What is dimension?	It is a schema object that defines hierarchical relationships between columns or column sets.
(4) _____ represents data in the form of relational model.	Logical design
(5) _____ include the data in relational model that is implemented using commercial software.	Physical design
(6) _____ table is a primary table in a dimensional model.	A fact table
(7) _____ table is the central table in a star	Fact table

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schema of a data warehouse.	
(8) _____ column allows joins with dimension tables.	Foreign keys
(9)	

### (3) Design dimension table, fact table for data warehouse

Question :	Answer :
(1) Fact table includes _____	Facts and Foreign key
(2) _____ is the central table in a star schema of a data warehouse.	Fact table
(3) Fact table stores _____ information.	Quantitative
(4) In data warehousing, a _____ is a collection of reference information about a measurable event. These events are known as facts and are stored in a fact table.	Dimension
(5) The dimension table is associated with a fact table using _____.	primary key
(6) What is surrogate key?.	When creating a dimension table in a data warehouse, a system generated key is used to uniquely identify a row in the dimension.
(7) Surrogate key is used as the primary key in the _____	Dimension table

### Star Schema:

Question :	Answer :
(1) What is star schema?	Joining of facts with dimensions is called a star schema.
(2) Give the full form of KPIs.	Key Performance Indicators.

### (4) Types of Data Models:

Question :	Answer :
(1) How many types of data models are there?	Conceptual, Logical, Physical
(2) Conceptual Model defines _____	What the system contains.
(3) Logical Model defines _____	How the system should be implemented.
(4) Physical Model defines _____	How the system will be implemented using specific DBMS system.
(5) What is Data Modeling?	It is a technique to document a software system using diagrams and symbols.
(6) Give the full form of ERD.	Entity Relationship Diagram
(7) The highest level of abstraction for the data	Entity Relationship Diagram



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model is called _____	
(8) Which are the components of ERD?	(1) Entities (2) Attributes (3) Relationships
(9) Entities means (in terms of database)	Tables
(10) Relationship means _____	Associations between the entities
(11) Attributes means _____	Attributes are facts or description of entities.
(12) Foreign key is also known as _____	Reference key

## Chapter - 3

### Q - 1 ETL

Question :	Answer :
(1) Give the full form of ETL.	Extract, Transform and Load
(2) Give the transformation steps of data.	(1) Filtering (2) Cleaning (3) Joining (4) Splitting (5) Sorting
(3) ETL process can also use _____	Pipeline concept
(4) ETL process execute in parallel mode. True or False.	True
(5) Load data means _____	Load the data into final target.

### Q - 2 SSIS

Question :	Answer :
(1) Give the full form of SSIS.	Sql Server Integration Services
(2) SSIS is a platform for _____	Data integration, Data migration and ETL process
(3) SSIS replaced the ___ services.	Data transformation services
(4) Before SSIS sql server used ___ services.	Data Transformation Services
(5) Give the full form of SSMS.	Sql Server Management Studio
(6) Give the full form of BIDS.	Business Intelligence Development Studio

### Q - 3 What is container?

Question :	Answer :
(1) What is container?	Container is a place in which we can store objects, data or other container
(2) Types of Container	(1) Foreach loop container (2) For loop container (3) Sequence container (4) Task host container
(3) Tasks and containers that are subset of the package _____	control flow

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(4) The Sequence container can include _____ in addition to other containers	multiple tasks
(5) For loop runs _____ repeatedly by testing a condition	control flow
(6) Disable property of container used for _____	Disable the container
(7) ID property is read only. True or False.	True

Q - 4 Data flow and control flow.

Question :	Answer :
(1) Give the full form of SSIS.	SQL Server Data Tools
(2) Data flow task is wrapped by _____	The task host object.
(3) Which are the components of data flow tasks.	(1) data flow sources (2) Data flow transformations (3) Data flow destination
(4) Control flow is a part of _____	Integration service (SSIS)
(5) SSIS provides _____ types of control flow elements.	Three types of elements. (1) containers (2) tasks (3) constraints
(6) SSIS supports the nesting of containers. True or False.	True

Package.

Question :	Answer :
(1) What is package?	A package is an organized collection of connections, control flow elements, data flows elements, event handlers, variables, parameters and configuration.
(2) Can you reuse the existing package?	Yes
(3) How can you create the package?	Using SSIS new project we can create the package.

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## Chapter - 4

Q -1 Data Quality.

Question :	Answer :
(1) What is data quality?	Data quality is assessment of data's fitness to serve its purpose.
(2) Key Data Quality include _____	Accuracy, completeness, correctness, Consistency, Integrity, credibility, Timeliness
(3) Give the full form of DQAF.	Data Quality Assessment Framework

Q-2 DQS

Question :	Answer :
(1) Give the full form of DQS.	Data Quality Service
(2) Which task perform DQS?	Correction of data, Standard data, and remove duplication of data
(3) Give the full form of MDS.	Master Data Service
(4) Types of Data cleansing.	(1) Computer assisted process (2) Interactive process
(5) DQS categorizes the data with five tabs like _____	(1) Suggested (2) New (3) Invalid (4) Corrected (5) Correct
(6) Why DQS use match the data process	To reduce duplication
(7) A survivorship rule is used for _____	DQS use this rule to determine the record that will survive the matching process and replace the matching records.

Q - 3 script task in ssis.

Question :	Answer :
(1) What is script task?	SSIS script task allows to add functionality to SSIS package.
(2) With the script task you can program using _____ and _____ languages.	C# and VB
(3) The SSIS is the Microsoft platform. True or False.	True
(4) The SSIS is used for _____	Data integration and Data transformation
(5) SSDT stands for _____	Sql Server Data Tools
(6) Which package is useful for provides classes and interfaces to create custom data flow component.	Microsoft.SqlServer.Dts.Pipeline

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## Chapter - 5

Q-1 SSDT.

Question :	Answer :
(1) Give the full form of SSMS.	Sql Server Management Studio
(2) Give the full form of SSDT.	Sql Server Data tool
(3) What is the use of SSDT?	SSDT used for developing the integration services packages.
(4) _____ is used to create basic packages that copy the data from sources to destinations.	Sql Server import and export wizard

Q-2 SSIS and BI

Question :	Answer :
(1) Before we can deploy any project to SQL server instance first need to create _____	The integration services catalog.
(2) integration services catalog is like _____	Container for all deployed projects.
(3) There is _____ catalog per SQL server instance.	One
(4) BI stands for _____	Business Intelligence
(5) BI tools allows developers to _____	Perform ETL
(6) OLAP stands for _____	Online Analytical Processing
(7) KPI stands for _____	Key Performance Indicators
(8) SME stands for _____	Small and Medium Enterprises
(9) OLTP stands for _____	Online Transaction Processing
(10) How many types of BI users are there?	4 types
(11) Give the list of BI users _____	(1) The professional Data Analyst (2) The IT users (3) The head of the company (4) The business users
(12) Give the full form of SSAS.	SQL Server Analysis Services
(13) BIDS stands for _____	Business Intelligence Development Studio
(14) BIML stands for _____	Business Intelligence Markup Language

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Q-3 SSdT.

Question :	Answer :
(1) SSdT is used for _____	Create the report.
(2) _____ of SSdT feature is used to provide a graphical interface.	Report Designer
(3) What is the use of report project?	Report projects act as container for report definition and resources
(4) A _____ report have a fixed number of column.	Tabular
(5) A _____ report have variable number of columns.	Matrix
(6) A _____ report also available that is used to display analytical against geographic background.	Map

Q - 4 Data Analysis

Question :	Answer :
(1) _____ is a process of inspecting, cleansing, transforming and modeling data with the goal of discovering useful information.	Data analysis
(2) Data analysis is used for _____	Decision making process
(3) To create analysis service project using SSdT you can use _____	The analysis service project template or import analysis services database wizard
(4) Integration services support _____ types of deployment models.	Two
(5) Integration services support two types of deployment models like _____	(1) The project deployment model (2) The legacy package deployment model
(6) which command prompt utility is used to run deployed package?	Dtexec.exe

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Q - 5 Other Reference Topics.

Question :	Answer :
(1) Give the full form of ROLAP.	Relational Online Analytical Processing
(2) Give the full form of MOLAP.	Multi dimensional Online Analytical Processing
(3) Give the full form of HOLAP.	Hybrid Online Analytical Processing
(4) HOLAP is combination of ___ and ___	MOLAP and ROLAP
(5) A data warehouse is a collection of _____	Data marts
(6) A data mart is _____	Data mart is a segment of a data warehouse or focused on a single functional area of an organization.
(7) List different types of OLAP servers.	(1) ROLAP (2) MOLAP (3) HOLAP (4) Specialized SQL servers
(8) OLAP contains _____ data.	Historical
(9) OLTP contains _____ data.	Current
(10) OLAP is useful for _____	Analyzing the business
(11) OLTP is useful for _____	Running the business

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## Data Warehousing with SQL Server 2012

### Unit - 1 Introduction to Data Warehousing

- (1) Explain Future trends in Data Warehousing. (March - 2019-bca), (March - 2020-bscit)
- (2) Explain Data Warehouse types. (March - 2019-bca), (March - 2020-bscit)
- (3) Explain Data Flow Architecture. (March - 2019-bca), (March - 2020-bca), (March - 2020-bscit)
- (4) Give the advantages of Data Warehousing. (March - 2019-bca), (March - 2020-bscit)
- (5) Explain Data Warehouse Architecture. (March - 2019-bca), (March - 2020-bca), (March - 2020-bscit)
- (6) Explain IOT and Cloud in the term of data warehousing. (March - 2019-bca)
- (7) Explain data mining. (March - 2020-bca), (March - 2020-bscit)
- (8) What is Normalized and Denormalized Database? (March - 2020-bca)
- (9) Explain characteristics of Data Warehouse. (March - 2020-bca)
- (10) Explain Data warehousing today. (March - 2020-bca)

### Unit - 2 Designing and Implementation of Data Warehousing

- (1) Give the steps for logical design data warehouse. (March - 2019-bca)
- (2) Explain types of dimensions. (March - 2019-bca), (March - 2020-bscit)
- (3) Give the difference. Fact table and Dimension table. (March - 2019-bca), (March - 2020-bca), (March - 2020-bscit)
- (4) Explain fact table and dimension table with diagram. (March - 2019-bca)
- (5) Explain out trigger dimension. (March - 2019-bca), (March - 2020-bca)
- (6) Give the difference between logical design and physical design. (March - 2019-bca), (March - 2020-bca), (March - 2020-bscit)
- (7) What is star schema?(March - 2020-bca), (March - 2020-bscit)
- (8) Explain different types of facts. (March - 2020-bscit)
- (9) Explain different types of data models and data modeling techniques. (March - 2020-bscit)
- (10) Define Surrogate key. Where it is used? (March - 2020-bca)
- (11) What is Relationship? (March - 2020-bca)

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## **Unit - 3 Creating ETL Solutions with SSIS, Implementing Control Flow in SSIS**

- (1) Give the list of components of data flow task. (March - 2019-bca)
- (2) Give basic steps for creating package. (March - 2019-bca), (March - 2020-bscit), (March - 2020-bca)
- (3) What is meta data? (March - 2019-bca), (March - 2020-bca)
- (4) Explain ETL in details. (March - 2019-bca), (March - 2020-bscit)
- (5) What is container? Explain its types and purpose. (March - 2019-bca), (March - 2020-bscit), (March - 2020-bca)
- (6) Explain control flow. (March - 2019-bca), (March - 2020-bscit), (March - 2020-bca)
- (7) What is dynamic package? (March - 2020-bscit)
- (8) Explain Data Flow. (March - 2020-bscit)
- (9) Explain types of loading. (March - 2020-bca)
- (10) Give the brief note on SSIS Data flow source and destination (March - 2020-bca)

## **Unit - 4 Enforcing Data Quality, Extending SQL Server Integration Services**

- (1) Draw a diagram for data matching in DQS. (March - 2019-bca)
- (2) Explain invalid DQS. (March - 2019-bca)
- (3) Explain Interactive process. (March - 2019-bca), (March - 2020-bscit), (March - 2020-bca)
- (4) Write the steps for the cycle of Data Quality Management. (March - 2019-bca)
- (5) Explain Computer Assisted cleansing process. (March - 2019-bca), (March - 2020-bscit), (March - 2020-bca)
- (6) Explain DQS matching process benefits. (March - 2019-bca)
- (7) Explain auto correction and auto suggestions. (March - 2020-bscit)
- (8) Explain Multi cast component. (March - 2020-bscit)
- (9) Explain Script task. (March - 2020-bscit)
- (10) Explain data matching policy (March - 2020-bscit)
- (11) Why Data Quality is important? (March - 2020-bca)
- (12) What is Data Quality Services? (March - 2020-bca)
- (13) Explain Features of DQS. (March - 2020-bca)
- (14) Explain Domain Rules Conditions in details. (March - 2020-bca)



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## **Unit - 5 Deploying and Configuring SSIS Packages, Consuming Data in Data Warehouse**

- (1) Give the contents of Analysis Service Project folder. (March - 2019-bca)
- (2) What is the use of Aggregate in SSIS? (March - 2019-bca)
- (3) Explain benefits of Report Projects. (March - 2019-bca)
- (4) Give the steps to add Reports to a project. (March - 2019-bca)
- (5) Explain deployment process. (March - 2019-bca)
- (6) Explain Business Intelligence. (March - 2019-bca)
- (7) What is project deployment model? (March - 2020-bscit)
- (8) Explain SSMS. (March - 2020-bscit)
- (9) Explain Data Analysis. (March - 2020-bscit), (March - 2020-bca)
- (10) Explain different types of BI users. (March - 2020-bscit), (March - 2020-bca)
- (11) Explain Reporting Service. (March - 2020-bscit)
- (12) Explain BI advantages and disadvantages. (March - 2020-bscit), (March - 2020-bca)
- (13) Why we need SSIS? (March - 2020-bca)
- (14) Explain Event Handlers in SSIS. (March - 2020-bca)
- (15) Give the steps of deploying SSIS package step by step. (March - 2020-bca)