

ETL Syllabus

ETL Testing - Concepts

Test plan & Testing strategy in data warehousing

Report testing and Data warehousing testing

Testing plan

Test cases possibilities in Data warehousing

HP ALM and HP QC – Defect raising and re-testing

Basic DATABASE Concept and SQL

Basic history of database concept: DBMS, RDBMS, ORDBMS

SQL Language overview : DQL, DML, DDL, DCL, TCL

Data Manipulation Language DML and Transaction Control Language TCL

DML : INSERT, UPDATE, DELETE, MERGE

TCL : COMMIT, ROLLBACK, SAVEPOINT

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Data Definition Language - DDL

DDL : CREATE, ALTER, RENAME, DROP, TRUNCATE

DEFAULT OPTION.

Restricting and Sorting Data

WHERE Clause – Character Strings and Dates, number

General Comparison Conditions = > >= < <= <>

Other Comparison BETWEEN , IN , LIKE , NULL

Logical Conditions AND OR NOT

ORDER BY Clause, Sorting by Column Alias , Column Position, Multiple Columns

Constraints

NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY, CHECK

Column Level Constraint, Table Level Constraint – Naming constraints and usage

Adding a Constraint, Dropping a Constraint,

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Disabling Constraints, Enabling Constraints

Validating Constraints

Single-Row Functions

Character Functions: UPPER, LOWER, INITCAP, LENGTH, SUBSTR, INSTR, LPAD, RPAD, CONCAT, LTRIM, RTRIM, TRIM, REPLACE, TRANSLATE, REVERSE

Number Functions: ROUND, TRUNC, MOD, POWER, CEIL, FLOOR, ABS

Dates Functions: SYSDATE, MONTHS BETWEEN, NEXT DAY, LAST DAY, ADD MONTHS, ROUND, TRUNC, Arithmetic on Date

Conversion Functions: Implicit Data-Type Conversion & Explicit Data-Type Conversion, TO_CHAR, TO_NUMBER, TO_DATE

General Functions: NVL, NVL2, NULLIF, COALESCE

CASE Expression, DECODE

Nested function with real-time usage

JOINS

EQUI JOIN / SIMPLE JOIN / NORMAL JOIN

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ANSI JOIN, LEFT OUTER, RIGHT OUTER, FULL OUTER

INNER JOIN, JOIN ... USING clause, JOIN ... ON clause,

CROSS JOIN, NON-EQUI JOIN, SELF JOIN

ORACLE STANDARD OUTER JOINS.

Multi table Joins, Complex Joins – How to simplified complex joins.

Multi-row Functions

Group Functions Rules, SUM, MIN, MAX, COUNT, AVG

Creating Groups of Data: GROUP BY Clause

Filtering Group Results: The HAVING Clause

Sub-queries

Single-Row Subqueries- Rules, Operators : = > >= < <= <>

Null Values in a Subquery

Multi-Row Subqueries- Rules, Operators : IN, ANY , ALL

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Views

Simple Views and Complex Views – Create, Drop

Rules for Performing DML Operations on a View

Inline Views

Materialized View – Create, Refresh, Drop – Usage

Other Database Objects

Sequence- NEXTVAL and CURRVAL

Index

Index – When to Create an Index, When Not to Create an Index.

Synonyms

Synonyms

SET Operators

UNION

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UNION ALL

INTERSECT

MINUS

Advanced Date-time Functions

TIME ZONES

SYSDATE, SYSTIMESTAMP

CURRENT_DATE , CURRENT_TIMESTAMP

SESSIONTIMEZONE

TO_YMINTERVAL

TO_TIMESTAMP , numtodsinterval, cast, compose, decompose

Analytic Functions

WM_CONCAT, LAG, LEAD, RANK, DENSE_RANK

Query by partition clause with sum, min, max, avg, count

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order by clause with sum, min, max, avg, count

Data warehouse Concepts

Business Intelligence

Data Warehousing Concepts (What/Why/How)

Data Modeling (Schemas, FACTS and DIMENSIONS)

Data Mart

Metadata

OLAP VS OLTP

Dimension

Fact

Types of Dimension tables

Types of Fact tables

Star Schema

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Snowflake Schema

Slowly Changing Dimensions

Top down and Bottom up approach

E T L Informatica Power Center 9.X.X

Why do we need ETL tool and Why Informatica?

Introduction to Informatica

Introduction

Getting started

Informatica Suite Components

Informatica Architecture

Informatica Server

Informatica Power Center Client Components

Repository Manager

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Designer

Workflow Manager

Workflow Monitor

Informatica Building Blocks

Source & Targets

Transformations

Mappings

Mapplets

Sessions

Workflows

Sources

Working with Relational Source

Working with Flat file Source

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Working with heterogeneous sources

Targets

Working with Relational Targets

Working with Flat file Targets

Direct and Indirect file loading

Different Transformations

Active and Passive Transformations

Connected and un-connected transformations

Source Qualifier Transformation

Filter Transformation

Expression Transformation

Sorter Transformation

Aggregator Transformation

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Router Transformation

Rank Transformation

Sequence Generator Transformation

Joiner Transformation

Lookup Transformation

Connected Lookup

Un Connected Lookup

Update Strategy Transformation

Union Transformation

Normalizer Transformation

Transaction Control Transformation

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