Refresher – Self learnings

MySQL Refresher Learning

Topics	Subtopics	Learning Reference Links
Database Basics	• Understanding databases and relational database management systems (RDBMS). • Basic SQL syntax.	https://www.techtarget.com/searchdatamanagement/definition/RDBMS-relational-database-management-system https://www.w3schools.com/sql/sql_syntax.asp
Data Definition Language (DDL)	• Creating, altering, and dropping tables. • Defining primary keys, foreign keys, and indexes.	https://www.w3schools.com/sql/sql_ref_table.asp https://www.geeksforgeeks.org/difference-between-primary-key-and-foreign-key/ https://www.w3schools.com/mysql/mysql_create_index.asp
Data Manipulation Language (DML)	• Inserting, updating, and deleting data. • Using SELECT queries to retrieve data.	https://satnamsingh99.medium.com/data-manipulation-with-sql-insert-update-and-delete-4ae9c80e89b3 https://www.freecodecamp.org/news/sql-select-statement-how-to-select-data-from-a-database/
Joins and Subqueries	• Understanding different types of joins (INNER JOIN, LEFT JOIN, RIGHT JOIN) • Writing subqueries to perform complex queries.	https://www.geeksforgeeks.org/sql-join-set-1-inner-left-right-and-full-joins/ https://mode.com/sql-tutorial/sql-sub-queries

HTML, CSS, JavaScript Refresher

Skills	Key Concepts	Video Links
HTML5	Introduction, Getting Started, Elements & Attributes, Navigation, Events, Web Forms 2.0, Web Storage, Web SQL Database, Geo Location	https://www.youtube.com/watch?v=mJgBOIoGihA
CSS3	Introduction, Selectors, Styling, Box Model, Advanced Concepts - Media Queries, RWD	https://www.youtube.com/watch?v=OXGznpKZ_sA
JavaScript	Getting Started, Fundamentals, Operators, Control Flow, Objects, Arrays, Functions, DOM	https://www.youtube.com/watch?v=PkZNo7MFNFg

Key Concepts	Learning Reference Links
Introduction to HTML5	https://www.geeksforgeeks.org/html5-introduction/
Elements & Attributes	https://www.almabetter.com/bytes/tutorials/html/html5-attributes
Navigations	https://www.geeksforgeeks.org/html-nav-tag/
Events	https://www.geeksforgeeks.org/html-event-attributes/
Web Forms 2.0	https://www.geeksforgeeks.org/what-is-web-forms-2-0/
Web Storage	https://www.c-sharpcorner.com/UploadFile/cb1429/web-storage-in-html5/
Web SQL Database	https://www.c-sharpcorner.com/UploadFile/75a48f/html-5-web-sql-database/
Geolocation	https://www.geeksforgeeks.org/html-geolocation/
Introduction to CSS3	https://www.geeksforgeeks.org/css-introduction/
Selectors	https://www.geeksforgeeks.org/css-selectors/
Styling	https://www.geeksforgeeks.org/types-of-css-cascading-style-sheet/
Box Model	https://www.geeksforgeeks.org/css-box-model/
Media Queries	https://www.geeksforgeeks.org/css-media-queries/
RWD	https://www.geeksforgeeks.org/what-is-rwdresponsive-web-design/
Introduction to JavaScript	https://www.geeksforgeeks.org/introduction-to-javascript/
Operators	https://www.geeksforgeeks.org/javascript-operators/
Control Flow	https://www.geeksforgeeks.org/control-statements-in-javascript/
Objects	https://www.geeksforgeeks.org/objects-in-javascript/
Arrays	https://www.geeksforgeeks.org/javascript-arrays/
Functions	https://www.geeksforgeeks.org/functions-in-javascript/

DOM	https://www.geeksforgeeks.org/dom-document-object-model/

Core Java Refresher Learning

Topics	Sub Topics	Learning Reference Links
Basic Syntax and Structure	• Understanding the basic structure of a Java program. • Variables, data types, and operators.	https://www.javatpoint.com/structure-of-java-program https://www.guru99.com/java-variables.html
Object-Oriented Programming (OOP)	• Classes and objects. • Inheritance, polymorphism, encapsulation, and abstraction.	https://www.geeksforgeeks.org/classes-objects-java/ https://www.geeksforgeeks.org/understanding-encapsulation-inheritance-polymorphism-abstraction-in-oops/
Exception Handling	• Try-catch blocks. • Throwing and handling exceptions.	https://www.javatpoint.com/try-catch-block https://www.geeksforgeeks.org/throw-throws-java/
Collections Framework	• Lists, sets, maps, and their implementations (ArrayList, HashSet, HashMap). • Iterators and enhanced for loop.	https://www.javatpoint.com/collections-in-java https://www.geeksforgeeks.org/iterator-vs-foreach-in-java/
Java I/O	• File handling using java.io package. • Reading and writing files.	https://www.geeksforgeeks.org/file-handling-in-java/ http://www.btechsmartclass.com/java/java-File-reading-and-writing.html
Java 8 Features	• Lambda expressions and functional interfaces. • Stream API for processing collections .	https://favtutor.com/blogs/lambda-expressions-java https://www.geeksforgeeks.org/functional-interfaces-java/ https://www.geeksforgeeks.org/stream-in-java/