Topic #	Tonie Neme	Learning Objective
	Topic Name	Learning Objective
1	Understanding SQL	
		1
		2
2	DDL, DML, DQL, DCL, TCL	
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3	Understanding Constraints and their Types	
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4	SQL Operators	
4	SQL Operators	1
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5	SQL Functions	
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6 Clauses in SQL	
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7 Joins and their Types	
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8 Sub-queries	
o Sub-queries	1
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9	Views and Indexes	
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Coverage of Each Module			
Learning Objective for the Topics	Estimated Duration In Mts for Theory	Estimated Duration In Mts for Hands-on	
Understanding ANSI SQL	30	15	
ANSI SQL Data Types	20		
Estimated Time Duration for this Topic	50	15	
Data Definition Language : CREATE, ALTER, RENAME, DROP, TRUNCATE	30	20	
Data Manipulation Language : INSERT, UPDATE, DELETE	30	20	
Data Query Language : SELECT, FETCH FIRST	30	10	
Data Control Language : GRANT, REVOKE,	30	20	
Transaction Control Language : COMMIT, SAVEPOINT, ROLLBACK	35	20	
Case study	10	20	
Estimated Time Duration for this Topic	165	110	
Data Integrity	20		
Integrity Constraints	20		
Entity integrity	15		
PRIMARY KEY Constraint	15	10	
Sequence generators	20		
Referential Integrity	10		
FOREIGN KEY Constraint	15	10	
Domain Integrity	15		
NOT NULL Constraint	15	10	
UNIQUE KEY Constraint	15	10	
CHECK Constraint	15	10	
User Defined Integrity	10		
Enabling and Disabling Constraints	20	10	
Case Study	10	20	
	215		
COL On anatona 9 their terran	45		
SQL Operators & their types	15	40	
Arithmetic operators	30	10	
Comparison operators	30	10	
Logical operators	30	10	
Set operators	30	10	
Case Study	405	40	
	135	80	
ANSI (SQL 99) SQL Functions Classification	15		

» Deterministic and Nondeterministic functions	20	
<ul><li>» Aggregate Functions and Scalar Functions</li></ul>	20	15
<ul><li>» String Functions, Mathematical Functions</li></ul>	20	15
<ul><li>» Miscellaneous Functions (COALESCE &amp; NULLIF)</li></ul>	30	15
Nesting of Functions & SQL Expression	25	
Case study		60
Estimated Time Duration for this Topic	130	105
Group By Clause	20	15
Having Clause	20	15
Order By Clause	20	15
Order of Execution of Clauses in SELECT Statement	15	
Case study		35
Estimated Time Duration for this Topic	75	80
JOIN & JOIN Style	25	10
Theta Style	10	10
ANSI Style : JOIN ON & JOIN USING	20	10
CROSS JOIN	15	10
INNER JOIN	10	
EQUI-JOIN	15	10
NATURAL JOIN	15	10
OUTER JOIN	10	
LEFT OUTER JOIN	15	10
RIGHT OUTER JOIN	15	10
FULL OUTER JOIN	15	10
SELF JOIN	15	10
Case study		70
Estimated Time Duration for this Topic	180	170
		170
Understanding Subqueries	35	170
Understanding Subqueries Advantages of subqueries	35 25	170
Understanding Subqueries Advantages of subqueries Rules of subqueries	35	170
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT,	35 25	40
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE	35 25 25	
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE	35 25 25 25 35	
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE Subqueries Types	35 25 25 25 35	40
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE Subqueries Types Scalar Subquery	35 25 25 35 15 20	40
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE Subqueries Types Scalar Subquery Single Row Subquery	35 25 25 35 15 20 30	40 10 10
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE Subqueries Types Scalar Subquery Single Row Subquery Multiple Row Subquery Usage of IN, NOT IN, ALL, ANY, and SOME	35 25 25 35 15 20 30 30	40 10 10 10
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE Subqueries Types Scalar Subquery Single Row Subquery Multiple Row Subquery	35 25 25 35 15 20 30 30 30	40 10 10 10 40
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE Subqueries Types Scalar Subquery Single Row Subquery Multiple Row Subquery Usage of IN, NOT IN, ALL, ANY, and SOME Correlated Subqueries	35 25 25 35 15 20 30 30 30 30	40 10 10 10 40 15
Understanding Subqueries Advantages of subqueries Rules of subqueries Using Subqueries With SELECT, INSERT, UPDATE, DELETE Subqueries Types Scalar Subquery Single Row Subquery Multiple Row Subquery Usage of IN, NOT IN, ALL, ANY, and SOME Correlated Subqueries Usage of EXISTS, NOT EXISTS Difference between Correlated & Non-	35 25 25 35 15 20 30 30 30 30 30	40 10 10 10 40 15

Database Objects	20	
What is View?	30	
Advantages of View	20	
Inline View	20	10
What is Index ?	25	10
Index Architecture : Non-clustered & Clustered	35	
Unique Index	30	10
Case study		50
Estimated Time Duration for this Topic	180	80

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