	Querying Data on the Web	2015-2016	Alvaro A A Fernandes	School of Computer Science	University of Manchester
	Week 1	**Week 2**	**Week 3**	**Week 4**	**Week 5**
09:00	L01 Database Management Systems: Definition, Languages, Applications	L06 Relational Query Processing [1]: QP Overview, QP Example, QP Stages	L11 A Quick Tour of XQuery	L16 A Quick Tour of SPARQL	L21 Querying the Web of Data
10:00	L02 Database Management Systems: Internals, Strengths/ Weaknesses/ Trends, Variations	L07 Relational Query Processing [2]: Logical Optimization Equivalences, Heuristics, Example	L12 An Algebraic View of XQuery	L17 An Algebraic View of SPARQL	L22 Massively-Parallel Schemes: NOSQL
11:00	L03 The Relational Case: The Relational Model, Relational Databases	L08 Relational Query Processing [3]: Algorithmic Strategies, Evaluation Strategies, Physical Operators	L13 The BaseX Native XML DBMS: Storage	L18 Logical Optimization in SPARQL	L23 Massively-Parallel Schemes: The Map-Reduce Model
12:00	L04 Relational Query Languages [1]: QL Special Features, Relational Calculi, Relational Algebra	L09 Relational Query Processing [4]: Cost-Based Plan Selection, Plan Generation and Ranking, Join Ordering, Physical Operator Selection	L14 The BaseX Native XML DBMS: Query Optimization	L19 Query Evaluation in SPARQL [1]	L24 Massively-Parallel Schemes Map-Reduce Engines
13:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:00	L05 Relational Query Languages [2]: A Relational Algebra [2], RA Examples, SQL	L10 Parallel Query Processing: Data Partitioning, Parallelizing Relational Algebraic Operators	L15 The BaseX Native XML DBMS: Query Evaluation	L20 Query Evaluation in SPARQL [2]	L25 Massively-Parallel Schemes Query Processing with Map-Reduce
15:00	Quiz 1: Relational Querying	Quiz 2: Query Optimization	Quiz 3: XQuery	Quiz 4: SPARQL	Quiz 5: Massively-Parallel Schemes
15:30 to 17:00	Lab Session 1: Relational Querying	Lab Session : Query Optimization	Lab Session 3: Scalability	Lab Session 4: XQuery	Lab Session 5: SPARQL