



## Advanced Kx for DBAs Course Outline

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<b>Day 1</b>	
Enumeration	A detailed discussion on enumeration, when to enumerate and its consequences.
q Startup Options	A short description of all the q startup options.
Schemas	An introduction to database design and database schemas.
Keyed Tables	Detailed overview on how to extend tables and created keyed tables.
Attributes	A look at the various list attributes in kdb+ and how and when they should be used.
q.k/q.q	A look at the roles of the q.k and q.q. files with a detailed explanation of each function.
q Shortcuts (-x!)	A discussion on each of the -x! functions, what they do and where they are used.
<b>Day 2</b>	
Simple Queries	An introduction to SQL-like kdb+ query syntax.
Joins	Simple joins between tables or dictionaries.
Table Arithmetic	Applying simple arithmetic operations to tables and dictionaries.
Optimising Queries	How to improve the performance and throughput of kdb+ databases.
Slaves	The S option in kdb+, where to use it and its limitations.
Functional/Dynamic Queries	Creating a dynamic query. Parsing the text format of a query into functional form.
<b>Day 3</b>	
ODBC	A look at kdb+ in relation to ODBC.
Tables on Disk	A breakdown of how kdb+ stores data on disk.
Logging & Checkpointing	OLTP databases. Creating transactional databases.
Authentication/Security	A look at the kdb+ security model including an example integration with Active Directory.
Building Gateways	An example of how to build an efficient gateway in q.
Mserve.q	An example on creating multiple request queries in kdb+.