Designing and Implementing SQL Server Indexes

GENERAL INDEXING GUIDELINES



Gail Shaw
TECHNICAL LEAD

@SQLintheWild http://sqlinthewild.co.za



Why do we Create Indexes?

Enforce uniqueness across columns

Improve the performance of queries



Indexes created for performance are determined by the workload



When Indexing a New System

Create indexes to support unique requirements

Create indexes on foreign key columns

Create indexes to support expected common queries

Be prepared to change indexes later



When Indexing an Existing System

Identify the most resourceintensive queries Identify the most important queries

Index to support them

Re-investigate regularly



Course Agenda



Index Architecture and Execution Plans

Clustered Indexes

Nonclustered Indexes

Indexed Views

Columnstore Indexes

