SQL Query Tuning Hints

- Tuning Queries
 - Avoid grabbing too much data
 - Avoid SELECT *
 - Query performs faster if actual columns names used
 - Filter GROUP BY queries in WHERE clause
 - HAVING clause filters data after rows are retrieved

- Tuning Queries
 - Limit table scanning and row processing
 - Avoid NOT IN, NOT LIKE, !=
 - Re-write for the positive
 - Avoid using cursors!
 - Create index on temp tables

- Typical instances for query tuning
 - Correlated queries
 - Temporary tables
 - Table variables
 - JOIN conditions
 - choose one that uses a clustering index
 - avoid those that contain string comparisons

- Typical instances for query tuning
 - Order of tables in FROM clause may affect JOIN processing
 - Some query optimizers perform worse on nested queries compared to their equivalent un-nested counterparts
 - Heavy reliance on views might do better to persist data

- Additional Query Tuning Guidelines
 - Query with multiple selection conditions connected via OR may not be using any index
 - Look to split up suspect queries and express as a union
 - Force a condition on attribute to leverage an index

- Additional Query Tuning Guidelines
 - Apply the following transformations
 - NOT condition into a positive expression.
 - Embedded SELECT blocks may be replaced by JOINs
 - Repeat range predicate restriction on JOINs
 - Re-write indexes to 'cover' columns in WHERE clause