

Indexing and Sargable Query Challenges

1

First Challenge

Challenge:

Create a non-clustered index on the location_id column in the oes.warehouses table. Also, specify warehouse_name as a non-key included column.

Second Challenge

Challenge:

Create a UNIQUE index on the product_name column in the oes.products table.

3

Third Challenge

Challenge:

Rewrite the following query to make it sargable:

```
SELECT
  order_id,
  order_date
FROM oes.orders
WHERE YEAR(order_date) = 2019;
```

4

Fourth Challenge

Challenge:

Most queries against the oes.orders table are for unshipped orders i.e. orders where the shipped_date is null. Put an appropriate filtered index on the shipped_date column.

5

Fifth Challenge

Challenge:

Rewrite the following query to make it sargable and create an index which covers the query, once rewritten:

```
SELECT
  customer_id, first_name, last_name, email, street_address
FROM oes.customers
WHERE LEFT(first_name, 2) = 'Vi'
AND last_name = 'Jones';
```