





```
CREATE NONCLUSTERED INDEX FI_Patient_state
ON Patient(state)
WHERE state= 'FL'
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-02-25T22:18:30.4629715-05:00

```
CREATE INDEX CIX_Patient
ON Patient(lastname, gender, dateOfBirth)
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-02-25T22:31:53.9744141-05:00

--Before adding Unique Phone Index

```
SELECT phone
FROM Patient
```

100 %

Results Messages Execution plan

Query 1: Query cost (relative to the batch): 100%

SELECT phone FROM Patient

Table Scan
[Patient]
Cost: 100 %
0.000s
115 of
115 (100%)

--After adding Unique Phone Index

```
SELECT phone
FROM Patient
```

100 %

Results Messages Live Query Statistics Execution plan

Estimated query Query 1: Query cost (relative to the batch): 100%

progress:100% SELECT phone FROM Patient

Index Scan (NonClustered...
[Patient].[PK_Patient]
115 of
115 (100%)

--Before adding Filtered Index

```
SELECT state
FROM Patient
WHERE state='FL'
```

100 %

Results Messages Execution plan Client Statistics

Query 1: Query cost (relative to the batch): 100%

SELECT [state] FROM [Patient] WHERE [state]='FL'

Clustered Index Scan (C...
[Patient].[UN_phone]
Cost: 100 %
0.000s
19 of
19 (100%)

--After adding Filtered Index

```
SELECT state
FROM Patient
WHERE state='FL'
```

100 %

Results Messages Live Query Statistics Execution plan Client Statistics

Estimated query Query 1: Query cost (relative to the batch): 100%

progress:100% SELECT [state] FROM [Patient] WHERE [state]='FL'

Index Seek (NonClustered...
[Patient].[FI_Patient_s...]
19 of
19 (100%)

--Before adding CIX Index

```
SELECT lastName, gender, dateOfBirth
FROM Patient
```

100 %

Results Messages Execution plan Client Statistics

Query 1: Query cost (relative to the batch): 100%

SELECT lastName, gender, dateOfBirth FROM Patient

Clustered Index Scan (C...
[Patient].[UN_phone]
Cost: 100 %
0.000s
115 of
115 (100%)

--After adding CIX Index

```
SELECT lastName, gender, dateOfBirth
FROM Patient
```

100 %

Results Messages Live Query Statistics Execution plan

Estimated query Query 1: Query cost (relative to the batch): 100%

progress:100% SELECT lastName, gender, dateOfBirth FROM P

Index Scan (NonClustered...
[Patient].[CIX_Patient]
115 of
115 (100%)