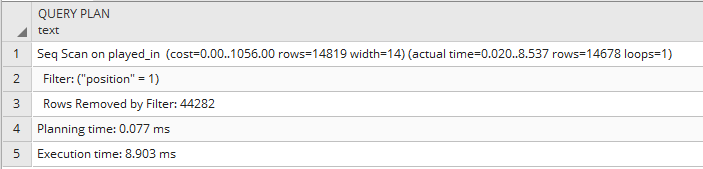
# **Part A**

## Q1.

*EXPLAIN ANALYZE SELECT \* from played\_in WHERE position=1;*

Execution Plan: Sequential Scan



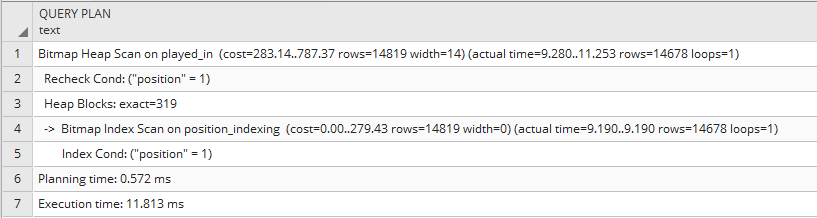
## Q2.

Estimated Cost for this query with the above execution plan was 0.00 + 1056.00.

## Q3.

*EXPLAIN ANALYZE SELECT \* from played\_in WHERE position=1;*

Execution Plan: Bitmap Heap Scan



## Q4.

Estimated Cost for this query with the above execution plan was 283.14 + 787.37.

## Q5.

Yes, the cost changed from 0.00 + 1056.00 to 283.14 + 787.37 because the bitmap index scan was used. Instead of brute-force iterations over the data.