Analysis

1. This query has useful 2 indexes out of already created indexes. They are **PK\_BEER\_TYPE** and **PK\_BEER**. It would be better to stick with the same.
2. This query has useful 3 indexes out of already created indexes. They are **PK\_VENUE\_ON\_TAP**, **PK\_BEER\_TYPE** and **PK\_BEER**. It would be better to have a non clustered index for **VENUE\_ON\_TAP.VENUE\_ID** and **VENUE\_ON\_TAP.DATE\_RAN\_OUT**. Also it would be helpful to have a non clustered index on **BEER.BEER\_ID**.
3. It would be better to have a non cluster index for **USER.SCREEN\_NAME**.
4. This query has useful 1 index out of already created indexes. It is **PK\_VENUE\_ON\_TAP**. It should be fine unless repetition check is required for rest of the parameters. In that case, a non clustered index on **VENUE\_ON\_TAP.VENUE\_ID** and **VENUE\_ON\_TAP.BEER\_ID**
5. This query has useful 1 index out of already created indexes. It is **PK\_VENUE\_ON\_TAP**. It would be better to use the same.

Following Indexes should be implemented

On Venue\_On\_Tap have non-clustered index for Date\_Ran\_Out, Venue\_ID, Beer\_ID and Venue\_On\_Tap\_ID in this sequence respectively.

On User have a non-clustered index for Screen\_Name.