202144020 한소희

1. 소스 코드

1 - (1) btnInsetActionPerformed

```
private void btnInsertActionPerformed(java.awt.event.ActionEvent evt) {
    int iCntRow = 0;
    int i0rder = 0;
    int iGallery = 0;
    iCntRow = jTable1.getRowCount(); // 행의 수 반환
    for (int idx = 0; idx < jTable1.getRowCount(); idx++) {</pre>
        // Check the values in column 0 of each row
        if (jTable1.getValueAt(idx, 0) == null) {
            iCntRow = idx;
            break;
        }
    }
    i0rder = Integer.parseInt(txt0rder.getText());
    iGallery = Integer.parseInt(txtGallery.getText());
    // 같은 데이터가 들어가지 않도록 수정!
    for (int idx = 0; idx < jTable1.getRowCount(); idx++)</pre>
        if (jTable1.getValueAt(idx, 1).equals(txtMovie.getText())) {
            break;
        } else {
             jTable1.setValueAt(iOrder, iCntRow, 0); // Setting the rank
             jTable1.setValueAt(txtMovie.getText(), iCntRow, 1); // Setting the movie title
             jTable1.setValueAt(iGallery, iCntRow, 2); // Setting the number of gallery
```

1 – (2) - btnSortActionPerformed

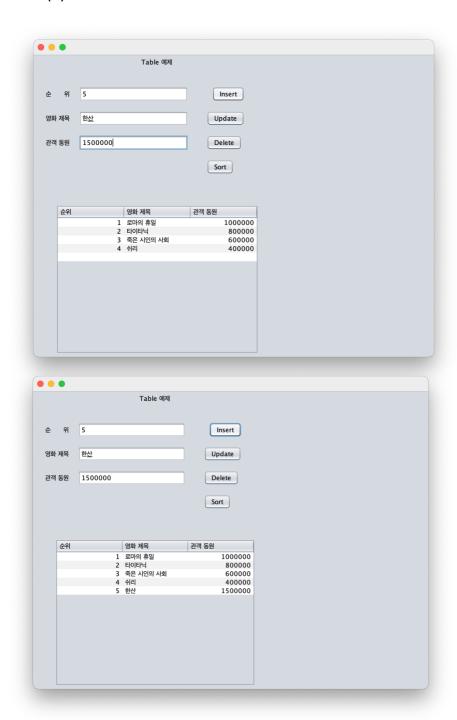
```
private void btnSortActionPerformed(java.awt.event.ActionEvent evt) {
     // "관객 동원" 수에 따라 내림차순으로 정렬하도록 구현하기!!
    MakeRowData objRowData;
     Vector myVC = new Vector();
     // 1. jTable1 -> myVC
     for (int iRow = 0; iRow < jTable1.getRowCount(); iRow++) {</pre>
         if (jTable1.getValueAt(iRow, 0) != null) {
             objRowData = new MakeRowData();
             objRowData.strMovie = jTable1.getValueAt(iRow, 1).toString();
             objRowData.iGallery = Integer.parseInt(jTable1.getValueAt(iRow, 2).toString());
             myVC.add(objRowData);
         } else {
             break;
     }
     // 2. Sorting (추가해야 함)
     Collections.sort(myVC, new GalleryDescCompare());
     // 3. myVC -> jTable1
     for (int idx = 0; idx < myVC.size(); idx++) {</pre>
         objRowData = (MakeRowData)myVC.get(idx);
         jTable1.setValueAt(idx+1, idx, 0);
         jTable1.setValueAt(objRowData.strMovie, idx, 1);
        jTable1.setValueAt(objRowData.iGallery, idx, 2);
     }
     // Initialize TextField
     txt0rder.setText(null);
     txtMovie.setText(null);
     txtGallery.setText(null);
}
```

```
public class MakeRowData {
    public String strMovie;
    public int iGallery;
}

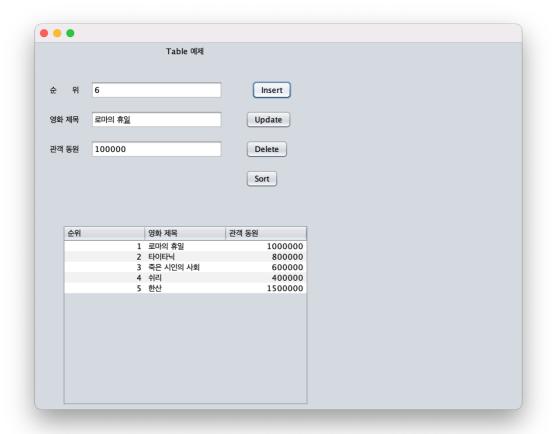
public class GalleryDescCompare implements Comparator {
    public int compare(Object arg0, Object arg1) {
        // Ascending(<) : Descending(>)
        if (((MakeRowData)arg0).iGallery > ((MakeRowData)arg1).iGallery) {
            return -1;
        } else if (((MakeRowData)arg0).iGallery == ((MakeRowData)arg1).iGallery) {
            return Integer.compare(((MakeRowData)arg0).iGallery, ((MakeRowData)arg1).iGallery);
        } else {
            return 1;
        }
    }
}
```

2. 실행 결과

2-(1) Insert



<이미 있는 영화 제목 입력 후 Insert 버튼 클릭 시, 테이블에 추가되지 않는다.>



2 - (2) Sort

