

63 单元格定位与文字设置对话框

第五步，添加通过“单元”对话框，设置单元格文字的功能。

63.1 “单元”对话框

C:\Users\Minwei\Projects\Qt\Sheet\celldialog.h:

```
1  ...
2  class CellDialog : public QDialog
3  {
4      ...
5  protected:
6      void closeEvent(QCloseEvent*);
7      void showEvent(QShowEvent*);
8
9  signals:
10     void updateCell(int row, int column, QString const& content);
11     void enableCell(bool enabled);
12
13  public slots:
14     void setMaximum(int rowCount, int columnCount);
15     void setCurrent(int row, int column, QString const& content);
16     ...
17 };
18 ...
```

C:\Users\Minwei\Projects\Qt\Sheet\celldialog.cpp:

```
1  ...
2  CellDialog::CellDialog(QWidget *parent) :
3      ...
4  {
5      ...
6      connect(parent, SIGNAL(setMaximum(int, int)),
7              this, SLOT(setMaximum(int, int)));
8      connect(parent, SIGNAL(setCurrent(int, int, QString const&)),
9              this, SLOT(setCurrent(int, int, QString const&)));
10     connect(this, SIGNAL(updateCell(int, int, QString const&)),
11             parent, SLOT(updateCell(int, int, QString const&)));
12     connect(this, SIGNAL(enableCell(bool)),
13             parent, SLOT(enableCell(bool)));
14     ...
15 }
16 ...
17 void CellDialog::closeEvent(QCloseEvent*)
18 {
19     emit enableCell(true);
20 }
21
22 void CellDialog::showEvent(QShowEvent*)
23 {
24     emit enableCell(false);
25 }
```

```

26
27 void CellDialog::setMaximum(int rowCount, int columnCount)
28 {
29     ui->m_spinRow->setMaximum(rowCount);
30     ui->m_spinCol->setMaximum(columnCount);
31 }
32
33 void CellDialog::setCurrent(int row, int column, QString const& content)
34 {
35     ui->m_spinRow->setValue(row);
36     ui->m_spinCol->setValue(column);
37     ui->m_editContent->setText(content);
38 }
39
40 void CellDialog::on_m_btnUpdate_clicked()
41 {
42     emit updateCell(
43         ui->m_spinRow->value() - 1,
44         ui->m_spinCol->value() - 1,
45         ui->m_editContent->text());
46 }

```

63.2 主窗口

C:\Users\Minwei\Projects\Qt\Sheet\sheetwindow.h:

```

1  ...
2  #include "celldialog.h"
3  ...
4  class Sheetwindow : public QMainWindow
5  {
6      ...
7  signals:
8      void setMaximum(int rowCount, int columnCount);
9      void setCurrent(int row, int column, QString const& content);
10
11 public slots:
12     void updateCell(int row, int column, QString const& content);
13     void enableCell(bool enabled);
14     ...
15 private:
16     ...
17     CellDialog m_dlgCell;
18     ...
19 };
20 ...

```

C:\Users\Minwei\Projects\Qt\Sheet\sheetwindow.cpp:

```

1  ...
2  Sheetwindow::Sheetwindow(QWidget *parent)
3      ...
4      , m_dlgCell(this)
5      ...

```

```

6  {
7      ...
8  }
9  ...
10 void Sheetwindow::updateCell(int row, int column, QString const& content)
11 {
12     QModelIndex index = m_model->index(row, column);
13     m_model->setData(index, content, Qt::DisplayRole);
14
15     m_selection->clearSelection();
16     m_selection->setCurrentIndex(index, QItemSelectionModel::Select);
17 }
18
19 void Sheetwindow::enableCell(bool enabled)
20 {
21     ui->m_actCell->setEnabled(enabled);
22 }
23
24 void Sheetwindow::on_m_actRowCol_triggered()
25 {
26     ...
27     if (dlg.exec() == QDialog::Accepted)
28     {
29         ...
30         emit setMaximum(dlg.getRowCount(), dlg.getColumnCount());
31         ...
32     }
33     ...
34 }
35 ...
36 void Sheetwindow::on_m_actCell_triggered()
37 {
38     m_dlgCell.show();
39 }
40
41 void Sheetwindow::on_m_table_clicked(const QModelIndex &index)
42 {
43     emit setCurrent(index.row() + 1, index.column() + 1,
44                     index.data().toString());
45 }
46
47 void Sheetwindow::on_m_selection_currentChanged(
48     QModelIndex const& current, QModelIndex const& previous)
49 {
50     ...
51     emit setCurrent(current.row() + 1, current.column() + 1, item->text());
52     ...
53 }
54 ...

```

6.3.3 测试验证

运行效果如图所示：

