

Working with SQLite Cursors

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A common mistake is the improper way to use cursors. It is very common to use a cursor and forget to close it. This produce an `IllegalStateException`.

A code similar to the following code example will produce an error the moment you leave the activity:

```
private void readContactData(long contactDataId) {
    Log.d(TAG, 'readContactData()');
    dbContact.open();
    Cursor cursor = dbContact.getContact(contactDataId);
    if (cursor.moveToFirst()) {
        ...
    } else {
        ...
    }
    dbContact.close();
    ...
}
```

The problem is that you are not closing the cursor properly.

You could try the following variable of the previous code:

```

private void readContactData(long contactDataId) {
    Log.d(TAG, 'readContactData()');
    dbContact.open();
    Cursor cursor = dbContact.getContact(contactDataId);
    if (cursor.moveToFirst()) {
        ...
    } else {
        ...
    }
    cursor.close();
    dbContact.close();
    ...
}

```

However, there are cases that this code produce a warning when cursor calls the method finalizer(). This seems to be a problem with Droid 2.

This method seems to work better:

```

private void readContactData(long contactDataId) {
    Log.d(TAG, 'readContactData()');
    Cursor cursor = null;
    try{
        dbContact.open();
        cursor = dbContact.getContact(contactDataId);
        if (cursor.moveToFirst()) {
            ...
        } else {
            ...
        }
        dbContact.close();
    }finally{
        if (cursor != null){
            cursor.deactivate();
            cursor.close();
        }
    }
}

```

Finally, there is always the option of using `startManagingCursor()`; however, this will be deprecated and replaced with `CursorLoader` class when using API 11.

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