还是得循序渐进。现在,我们先接受这一点:在 JavaScript 中,一个函数可以作为另一个函数接收一个参数。我们可以先定义一个函数,然后传递,也可以在传递参数的地方直接定义函数。

```
SELECT c.id,c.class_name as '班级名称',count(1) as '班级人数',GROUP_CONCAT(s.student_name)
WHERE s.class_id is NOT NULL
GROUP BY s.class_id
SELECT c.id, c.class name as '班级名称', count(1) as '班级人数', GROUP CONCAT(s.student name)
WHERE s.class_id is NOT NULL
GROUP BY s.class_id WITH ROLLUE;
    36
    37 --字符串
    38 --文件类-io(common-io.jar--FileUtil)
    39 -- 图片类工具类(裁剪,旋转,压缩,等等)
    40 - - 验证码
    41 --net抓取网页源代码和操作网页源代码(jsoup/httpclient/正则表达式)
    42 -- 反射
    43 --文档解析(office办公软件的解析,导入,导入导出)
    44 - - 音频类-mp3-mp4的解析
    45 - - 邮件发送
    46 -- 手机发送, 支付接口, 第三方登录
    47 - - 数字类
    48 - - - 密码类
    49 --xml解析
    50 -- JSON类
    51 --BeanUtil转换T
   52
  54
  55 -- java - - - 人工智能 - - 科大(讯飞拼音)
  56 --通过过java调用第三方接口-可以控制硬件
  57 - - 语音识别, 文字语音
  58
```

程序清单 2-4 使用 AtomicLong 类型的变量来统计已处理请求的数量

```
@ThreadSafe
public class CountingFactorizer implements Servlet {
    private final AtomicLong count = new AtomicLong(0);

    public long getCount() { return count.get(); }

    public void service(ServletRequest req, ServletResponse resp) {
        BigInteger i = extractFromRequest(req);
        BigInteger[] factors = factor(i);
        count.incrementAndGet();
        encodeIntoResponse(resp, factors);
    }
}
```

```
package exam.util;
  import java.util.ArrayList;
  import java.util.HashMap;
  import java.util.Map;
  import java.util.Scanner;
  import javax.jms.Session;
  import cn.netinnet.qdk.util.StringUtil;
  public class SqlUtil {
    static Map<String, String> sessionMap = new HashMap<String, String>();
    //session 缓存的字符串
    static{
         sessionMap.put("create_user", "session.user_code");
         sessionMap.put("user_code", "session.user_code");
         sessionMap.put("institution_code", "session.agency");
    }
    /**
     * main(将普通的 sql 转成 action 中的 sql, 个别字符还需要自己调整)
     *(这里描述这个方法适用条件 - 可选)
     * @param args
     *void
     * @exception
     * @since 1.0.0
     */
    public static void main(String[] args) {
         //StringBuilder sql = new StringBuilder("select ec.*, et.teacher_name,(select count(1)
from e_class_student ecs where ecs.class_id=ec.class_id and ecs.institution_code='yx') as
student_num, (select count(1) from e_task et where et.class_id=ec.class_id and et.status!='2' and
et.institution code='yx') as task num , (SELECT et.teacher name FROM e teacher et WHERE
et.teacher_code = ec.create_user ) create_teacher_name from e_class ec left join e_teacher et
on et.teacher_id=ec.teacher_id where ec.institution_code='yx' and (('teacher'='teacher' and
ec.teacher_id='1') or ec.create_user='netinnet' or 'teacher'='agency') and et.teacher_name like
'%%' and class_name like '%%' order by ec.create_date desc;");
```

System.out.println("请输入 sql 之后换行输入 end: ");

Scanner scn = new Scanner(System.in);

```
StringBuilder sql = new StringBuilder("");
         String line;
         while (!"end".equals(line = scn.nextLine())) {
              sql.append(line+" \n");
         }
         //System.out.println(sql);
         //StringBuilder sql = new StringBuilder("SELECT * FROM e_topic et WHERE
topic id='1111'");
         System.out.println(sql);
         System.out.println("转换后的 sql: ");
         System.out.println(actionSql(sql));
    }
    /**
     * main(这里用一句话描述这个方法的作用)
     *(这里描述这个方法适用条件 - 可选)
     * @param args
     *void
     * @exception
     * @since 1.0.0
     */
    public static String actionSql(StringBuilder sql){
         String[] keyIndex={"where"};
         String tempSql = sql.toString().toLowerCase();
         sql = new StringBuilder(tempSql);
         int key=0;int pos = -1;
         while(key<keyIndex.length && (pos=sql.indexOf(keyIndex[key]))==-1){
              key++;
         };
         //if(pos == -1) return "找不到关键字";
         int fromIndex = 0;
         while ((pos=tempSql.indexOf("=", fromIndex))!=-1){
              System.out.println( " =======");
              fromIndex = pos+1;
              suffixBean leftBean = findkey(tempSql,pos,-1);
              suffixBean rightBean = findkey(tempSql,pos,1);
              String leftkey = leftBean.getSuffix();
              String rightkey = rightBean.getSuffix();
              System.out.println(leftkey);
              System.out.println(rightkey);
```

```
if(leftkey.indexOf(".") > -1 && rightkey.indexOf(".") > -1){
                    continue;
               }
               if(leftkey.startsWith(""") && leftkey.endsWith(""") && rightkey.startsWith(""") &&
rightkey.endsWith(""")){
                    continue;
               }
               if(leftkey.startsWith(""") && leftkey.endsWith(""")){
                    suffixBean tempBean = leftBean;
                    leftBean = rightBean;
                    rightBean = tempBean;
                   leftkey = leftBean.getSuffix();
                   rightkey = rightBean.getSuffix();
               }
               String val =getName(leftkey,rightkey);
               System.out.println(val);
               tempSql
                                =tempSql.substring(0,
                                                               rightBean.getStart())+val
tempSql.substring(rightBean.getEnd());
               fromIndex =pos+ val.length()+1;
          }
          tempSql = tempSql.replaceAll("\n", " &&\n");
          tempSql = tempSql.substring(0,tempSql.length()-3);
          return tempSql;
    }
     private static String getName(String leftkey,String rightkey) {
          String preChar ="";
          if(rightkey.startsWith(""") | | rightkey.startsWith("\"")){
               preChar = rightkey.substring(0, 1);
               //leftkey = leftkey.substring(1,leftkey.length() -1);
         }
          return preChar+ Arguments(findName(leftkey)) +preChar;
    }
     public static String Arguments(String name) {
          if(sessionMap.get(name) != null){
               name = sessionMap.get(name);
         }
          return "[:"+name+"]";
     private static String findName(String str){
```

```
if(str == null | | str.length() == 0) return "";
         int start = 0;
         int end = str.length();
         if(str.contains("ifnull")){
              start = str.indexOf("ifnull") + "ifnull(".length();
              end = str.indexOf(",") ;
         }
         str = str.substring(start,end);
         if(str.indexOf(".") > -1){
              start = str.indexOf(".") + 1;
         }
         //ifnull(topic,1)
         return str.substring(start);
    }
    /*寻找=号两边的字符串*/
    public static suffixBean findkey(String tempSql, int pos, int dir) {
         char c;
         int next = pos;
         boolean flag = false;
         next +=dir;
         int start = next;
         c = tempSql.charAt(next);
         if( c == '<' || c == '>' || c == '!'){
              next +=dir;
              start = next;
         }
         && c <= 'z') ){
              start = next;
         if(c == ' '){
              while((next = next + dir) <tempSql.length() && tempSql.charAt(next) == '');</pre>
              start = next;
         }
         char startChar = ' ';
         startChar = tempSql.charAt(next);
         if(startChar !='\" && startChar !='\"'){
              startChar = ' ';
         }
         while((next = next + dir) <tempSql.length() ){</pre>
              c = tempSql.charAt(next);
```

```
if(c == startChar){
                  if(c == ' '){
                        next = next - dir;
                  }
                  break;
             }
        };
        int end = next;
        if (start > next ) {int temp = start; start = end; end = temp; }
        return new suffixBean(start,end+1,tempSql.substring(start,end+1));
  }
}
class suffixBean{
  int start;
  int end;
  String suffix;
  public suffixBean(){
  }
  public suffixBean(int start,int end,String suffix){
        this.start = start;
        this.end = end;
        this.suffix = suffix;
  }
  public int getStart() {
        return start;
  public void setStart(int start) {
        this.start = start;
  }
  public int getEnd() {
        return end;
  }
  public void setEnd(int end) {
        this.end = end;
  }
  public String getSuffix() {
        return suffix;
  }
  public void setSuffix(String suffix) {
        this.suffix = suffix;
  }
```