## 1: Parallel Computing for EM Alogorithm (40%)

## 2: Database Access from R (30%)

SQL in the pictures following highlighted in blue in the double quotes.

(a) The 'Book' Table:

```
> dbGetQuery(con,"SELECT * FROM Book;")
  BookNumber Classification
          1 Natural Science
           2 Natural Science
2
3
           3 Natural Science
                     History
5
           5
                    History
6
           6
                  Philosophy
7
                 Philosophy
           7
8
                  Philosophy
9
                  Philosophy
```

Figure 1: 'Book' Tbale

(b)

Figure 2: Students who borrowed natural science books

(c)

Figure 3: Students who borrowed book 8 for more than 30 days

## 3: XML (eXtensive Markup Language) (30%)