CSE3012: Database Design Lab

**Worksheet 2**: Aggregation, Sub Queries

The table given below from Worksheet 1 is required.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STD\_NO | NAME | DEPT | CGPA | GRAD\_DATE |
| 0711001 | Mashrafi | CSE | 3.91 | ’2003-11-15’ |
| 0711002 | Sakib | CSE | 3.52 | ’2008-08-01’ |
| 0711003 | Razzak | EEE | 3.56 | ’2006-01-23’ |
| 0711004 | Ashraful | EEE | 3.84 | ’2008-02-13’ |
| 0711005 | Rafique | MEC | 3.88 | ’2000-12-20’ |
| 0711006 | Shafiul | EEE | 3.57 | ’2007-03-25’ |
| 0711007 | Kapali | CHE | 3.87 | ’2003-11-15’ |
| 0711008 | Aftab | MEC | 3.25 | ’2006-01-23’ |
| 0711009 | Nafees | CSE | 3.95 | ’2006-01-23’ |
| 0711010 | Tamim | CSE | 3.81 | ’2007-03-23’ |
| 0711011 | Rajeen | CHE | 3.21 | ’2007-03-01’ |

**1. Aggregation:**

1. Retrieve the minimum cgpa from the table:
2. Retrieve the latest graduation date from the table:
3. Retrieve the total no of students graduated:
4. For each department find the maximum and minimum cgpa:
5. For each department retrieve the latest and earliest graduation date:
6. For each department, find the total no of students graduated:
7. For each department find the maximum and minimum cpga, but in this case consider those departments only for which at least 3 students appeared in the exam:
8. For each department find the maximum and minimum cpga, but in this case consider only those students who graduated on or after 2004:
9. Retrieve the highest cgpa obtained on or after 2004:

**2. Sub queries:**

1. Retrieve the name of the student who obtained maximum cgpa:
2. For each department find the students name who obtained the minimum cgpa:
3. Retrieve those cse students whose cgpa is higher than at least one eee student:
4. Retrieve those cse students whose cgpa is higher than all eee students: