

**CSC343H Summer 2003.**  
**Assignment 2.**  
**Deadline: Monday July 7th 2003 9:00 pm**

## **1 Rules**

For this assignment you have to submit one report and one archive.

### **1.1 Report**

The report should be put in the course drop box, located next to SF/PT bridge on the SF side (second floor), by Monday July 7th 2003 9:00 pm.

The report should contain a front page where you clearly identify your last name, first name, student id, login name, section (L5101 or L5201). It is also strongly advised to put your report in an envelope (letter format) and repeat the front page information on it.

### **1.2 Archive**

You should submit your archive file by the deadline using the cdf facility. For the Unix command submit, the name of this assignment is: "Assignment2" (submit -a Assignment2 ...). The name of the archive should be: "a2\_<studentid>.tar.gz".

### **1.3 Late submission**

The late policy is very simple: 20% for each late day regardless whether or not you partially submitted the assignment. The penalty will be calculated on the whole assignment.

Late assignment should be handed in person to an instructor (not to a TA) and the archive file must be sent via email to your instructor.

### 1.4 What happens if I do not follow the rules?

Penalty! We do not have time to find the name for a report or student id for an archive.

## 2 Queries (100 points)

This assignment consists of two parts. In the first part you should write a report containing the transcription of the following 18 queries in relational algebra when it is possible (otherwise state it and explain why) and SQL. For each query give also the first three tuples answered by the query.

The second part consists of an archive file where you will insert 18 files containing the query for each question (named query01.sql to query18.sql). These files must be written in such way that one can run them on db2 in shell mode (`db2 -f queryxx.sql` )

1. Give the names of the franchises with their id.
2. Give the names of the franchise for the team playing in 'AL' league
3. Give the number of players born in Canada.
4. Give the names of the players who have also been a manager.
5. How many players bat with both hands and throw with the left hand?
6. Give the average attendance per teamid ordered from the largest number to the smallest.
7. Give the first and last name of the best payed player ever with the salary that he earned the year he made this record amount.
8. Give the first name and last name of the players who have been division winner, league champion, world series champion batting with both hand throwing the ball with his left hand with the name of the team which they played for when the won these titles and the year.
9. Give the name and the year of creation of the oldest team in the database.
10. Give the first and last names with the total amount earned by players who made more than 70,000,000.
11. Give the number of players per year for the team whose name is: "Toronto Blue Jays".

12. Give the id of the players who won the world series in 1992 with the franchise named: "Toronto Blue Jays" and played for this team in 2002.
13. name of the player who never earned more than 100,000 per year.
14. The name of the team with the year and the number of wins for the team who won the world championship and the most wins during this year.
15. The name of the players who won at least once the world series as a player and as a manager (not necessarily the same year).
16. Name of the franchise that were always with the same teamId.
17. Name of the players who won at least once the world series with a team of the American league (AL) and with a team of the national league (NL).
18. The name of the player who won most world series.