JDBC Exercise

Today you will connect a Java program to your postgreSQL database and run some queries from Java.

- 1. Log on to dbsrv1.cdf.utoronto.ca
- 2. Create a directory where you'd like to do this work and cd to it.
- 3. Get a copy of a file, which defines a small dataset (jelly-beans.sql) and some java code (Example.java) that you will use today:

```
cp ~csc343h/fall/public_html/in_class/w6/code/* .
```

(You really do need that period at the end.)

4. Start postgreSQL:

```
psql csc343h-<your username>
```

5. Import jelly-beans.sql into your database:

```
\i jelly-beans.sql
```

- 6. Use \d to see what is defined and a SELECT query to examine the contents of table guesses. Then use \q to exit psql.
- 7. Get your bearings in the code. Find the parts where it:
 - (a) Establishes a connection to the database.
 - (b) Runs a query to find all the guesses by kids under 10, and iterates through the results to print them.
 - (c) Builds a query to find all the guesses by a particular person, but with a *placeholder* for the person's name. The program then substitutes in a name entered by the user and goes on to run the query and print the results.
- 8. Edit Example.java to replace bogdan with your cdf userid on these two lines:

```
url = "jdbc:postgresql://localhost:5432/csc343h-bogdan";
conn = DriverManager.getConnection(url, "bogdan", "");
```

9. Compile the Java code:

```
javac Example.java
```

10. Run the compiled code:

```
java -cp /local/packages/jdbc-postgresql/postgresql-8.4-701.jdbc4.jar: Example
```

The path to the jar file is hard to type. Tip: Use filename completion!