**Week 3 Homework**

The following practice may need to be completed using the databases hosted on wmc3317-2 using WB. Use WB whether you are running queries or creating a relational schema (a data model, essentially). Submit homework as a SQL script file. To mark the answers I will copy+paste the SQL script into my WB and execute the code. You could even write essay answers in an MS Word file or the SQL script itself – or in a separate MS Word/PDF file. If there is any dirty data, clean it by making reasonable assumptions.

1. **Database - ‘bigpvfc’. Copy/paste your answers to the queries below after testing that they work.**
2. Find the products which use the maximum quantity of materials in terms of quantity required (list only the top 3). (use tables: product\_t, uses\_t, rawmaterial\_t).
3. Find all the customers who have either ordered “Cherry” or “Birch” finish (Hint: set operations). (use tables: customer\_t, order\_t, orderline\_t, product\_t)
4. Find customers who have ordered “Birch” and also where among the top 3 in terms of purchase volume ($)
5. **Database: ‘sakila’. Copy/paste your answers to the queries below after testing that they work.**
6. Find the top 3 actors who have acted in the most number of film categories. (use tables: actor, film, film\_category)
7. Calculate the total amount ($) of all transactions for each of the top 100 customers in terms of the total amount (tables: customer, payment).
8. Compute the total number of rentals for movies that have the following words in its description ‘cat’, ‘boy’, ‘drama’. Which of these three categories have the highest rental volume? (tables: rental, film, inventory).

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