**COMS4111-Introduction to Databases**

**Project 1, Part 2**

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ACCOUNT: psql -Uxl2672 -h <104.196.18.7> -d w4111

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-- Xiyan Liu & Jun Hu

-- http://www.cs.columbia.edu/~biliris/4111/17s/projects/proj1-2.html

-- Interesting queries scripts for Project1, Part2.

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-- Does anyboy own at least 4 properties on sale now?

-- If yes, list their full names and property numbers.

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SELECT O.onr\_fname ||' '|| O.onr\_lname AS full\_name, COUNT(O.onr\_ssn) AS properties\_onsale

FROM Owners O, Blongs B

WHERE O.onr\_ssn = B.onr\_ssn AND B.prpt\_id IN (SELECT S.prpt\_id FROM States S WHERE S.st\_sale = true)

GROUP BY O.onr\_ssn

HAVING COUNT(O.onr\_ssn) > 3

ORDER BY properties\_onsale DESC ,full\_name ASC;

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-- Who was the agent of the most expensive sold property so far?

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SELECT A.agnt\_fname ||' '|| A.agnt\_lname AS full\_name

FROM Agents A, lists L

WHERE A.agnt\_id = L.agnt\_id AND L.prpt\_id IN (SELECT DISTINCT P.prpt\_id FROM Prices P WHERE P.pr\_sold IN (SELECT MAX(pr\_sold) FROM Prices));

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-- Block 'blk13' is a luxury district.

-- How much is its average price higher than overall average price on sale?

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SELECT (AVG(P.pr\_list) - AVG(P3.pr\_list)) AS higer\_than\_average

FROM Prices P, States S, (Select pr\_list From Prices P2, States S WHERE P2.prpt\_id = S.prpt\_id AND S.st\_sale = true) AS P3

WHERE P.prpt\_id = S.prpt\_id AND S.st\_sale = true AND P.prpt\_id IN (SELECT PR.prpt\_id FROM properties PR WHERE PR.blk\_id = 'blk13');

