T1-tsa-ra.docx

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Unit Code: FIT3171

Applied Class No: 06

Comments for your marker:

Write the **relational algebra operations** for each of Task 1 queries below (your answer must show an *understanding of query efficiency*).

List of symbols for copying/pasting as you enter your answers below:

project: π, select: σ, join: ⨝, intersect: ⋂, union: ⋃, minus: -

1(a)

R = πtown\_id,town\_name,town\_stateTOWN - πtown\_idTOWN ⨝ Point\_of\_Interest

1(b)

R = πpoi\_id, poi\_name, poi\_street\_address, poi\_descr(σpoi\_type\_descr =”Nature and Wildlife" ⋂poi\_review\_rating > 3 (Point\_of\_Interest ⨝ Poi\_type))

1(c)

R1 = σtown\_lat = -17.9644 ⋂town\_long = 122.2304 ⋂town\_name = “Broome” (Point\_of\_Interest ⨝ Town ⨝ Review ⨝ Customer)

R = πmember\_id, member\_gname, poi\_id, poi\_name, review\_date\_time, review\_rating, review\_comment R1