T1-tsa-ra.docx

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Unit Code: FIT2094
Applied Class No: Tutorial #1 (Monday) 11:00 - 13:00

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)

$R = \pi_{\text{town\_id, town\_name, town\_state}}$ (TOWN - $\pi_{\text{town\_id}}$ (POINT_OF_INTEREST))

1(b)

$R = \pi_{\text{poi\_id, poi\_name, poi\_street\_address, poi\_description}}$
($\sigma_{\text{poi\_type\_descr = 'Nature and Wildlife'}}$ (POI_TYPE)) ∩ $\sigma_{\text{poi\_review\_rating} > 3}$ (POINT_OF_INTEREST))

1(c)

$R = \pi_{\text{member\_id, member\_gname, poi\_id, poi\_name, review\_date\_time, review\_rating, review\_comment}}$
(($\sigma_{\text{town\_name = 'Broome'}}$ (TOWN) ∩ $\sigma_{\text{town\_lat} = -17.9644}$ (TOWN) ∩ $\sigma_{\text{town\_long} = 122.2304}$ (TOWN))
⋈ REVIEW ⋈ MEMBER)