Task 1: Relational Database Queries – Relational Algebra

(a) List the part code, part description for all parts supplied by the vendor named "Supercheap Auto".

Answer:

R1 = σ vendor_name="Supercheap Auto" (VENDOR)

R2 = PART ⋉ R1

R = π part_code, part_description (R2)

(b) List the part code and part description for all parts which have not been used in any service.

Answer:

(c) List the customer's name, phone number and vehicle registration number (rego) for all owners of vehicles who had their vehicle serviced on 22/02/2024 and where the service kilometres were greater than 80,000 km.

Answer: