

Task 02

UNF

PURPOSE_DETAILS(purp_no, purp_desc, comb_code, comb_hire_rate, VIN, rego_no, trailer_code, trailer_manu, trailer_model, trailer_load_capacity, trailer_dimensions)

1NF

PURPOSE_DETAILS(purp_no, comb_code, purp_desc, comb_hire_rate, VIN, rego_no, trailer_code, trailer_manu, trailer_model, trailer_load_capacity, trailer_dimensions)

Candidate Keys:

- purp_no, comb_code
- purp_no, VIN, trailer_code

Partial dependencies

- purp_no → purp_desc
- trailer_code → trailer_manu, trailer_model, trailer_load_capacity, trailer_dimensions
- VIN → rego_no

2NF

COMBINATION_RATE(purp_no, comb_code, comb_hire_rate)

COMBINATION(comb_code, VIN, trailer_code)

TRUCK(VIN, rego_no)

TRAILER(trailer_code, trailer_manu, trailer_model, trailer_load_capacity, trailer_dimensions)

PURPOSE(purp_no, purp_desc)

Transitive dependencies

- None

3NF

COMBINATION_RATE(purp_no, comb_code, comb_hire_rate)

COMBINATION(comb_code, VIN, trailer_code)

TRUCK(VIN, rego_no)

TRAILER(trailer_code, trailer_manu, trailer_model, trailer_load_capacity,
trailer_dimensions)

PURPOSE(purp_no, purp_desc)

Full dependencies

- purp_no, comb_code \rightarrow comb_hire_rate
- comb_code \rightarrow VIN, trailer_code
- VIN \rightarrow rego_no
- trailer_code \rightarrow trailer_manu, trailer_model, trailer_load_capacity,
trailer_dimensions
- Purp_no \rightarrow purp_desc