

ASSIGNMENT NORMALISATION

Driver Report Form:

UNF:

DRIVER (driver_num, driver_licence_num, driver_name, driver_DoB, driver_TFN,
(truck_VIN, truck_Reg_num, truck_make_year, truck_model, truck_year))

1NF:

DRIVER (driver_num, driver_licence_num, driver_name, driver_DoB, driver_TFN)

TRUCK (truck_VIN, truck_Reg_num, truck_make_year, truck_model, truck_year, driver_num)

Partial dependencies:

No other candidate Key

No Partial Dependencies

2NF:

DRIVER (driver_num, driver_licence_num, driver_name, driver_DoB, driver_TFN)

TRUCK (truck_VIN, truck_Reg_num, truck_make_year, truck_model, truck_year, driver_num)

Transitive dependencies:

driver_licence_num → driver_name, driver_DoB

driver_TFN → driver_name

3NF:

DRIVER (driver_num, driver_licence_num, driver_TFN)

LICENCE (licence_num, licence_driver_name, licence_driver_DoB)

TRUCK (truck_VIN, truck_Reg_num, truck_make_year, truck_model, truck_year, driver_num)

Full Dependencies:

driver_num → driver_licence_num, driver_TFN

driver_licence_num → driver_name, driver_DoB

truck_VIN → truck_Reg_num, truck_make_year, truck_model, truck_year

Collection Report Form

UNF:

COLLECTION_REPORT (contract_num, waste_type_id, waste_type_descript, collectn_freqncy, collectn_date, driver_num, driver_contact, truck_vin, (bin_rfid, waste_weight, waste_overload))

1NF:

COLLECTION_REPORT (contract_num, waste_type_id, waste_type_descript, collectn_freqncy, collectn_date, driver_num, driver_contact, truck_vin)

COLLECTION MADE (bin_rfid, waste_weight, waste_overload, contract_num, waste_type_id, collectn_date, driver_num)

Partial dependencies:

Waste_type_id → waste_type_descript

driver_num → driver_contact

Waste_type_id + contract_num → collectn_frequency

2NF:

COLLECTION_REPORT (contract_num, waste_type_id, collectn_date, driver_num, truck_vin)

WASTE_TYPE (waste_type_id, waste_type_descript)

DRIVER (driver_num, driver_contact)

FREQUENCY (contract_num, waste_type_id, collectn_freqncy)

COLLECTION MADE (bin_rfid, waste_weight, waste_overload, contract_num, waste_type_id, collectn_date, driver_num)

Transitive dependencies: No Transitive dependency

3NF:

COLLECTION_REPORT (contract_num, waste_type_id, collectn_date, driver_num, truck_vin)

WASTE_TYPE (waste_type_id, waste_type_descript)

DRIVER (driver_num, driver_contact)

FREQUENCY (contract_num, waste_type_id, collectn_freqncy)

COLLECTION MADE (bin_rfid, waste_weight, waste_overload, contract_num, waste_type_id, collectn_date, driver_num)

Full Dependencies:

Waste_type_id → waste_type_descript

driver_num → driver_contact

Waste_type_id + contract_num → collectn_freqncy contract_no, waste_type_id, collectn_date,
driver_num

truck_vin → truck_vin

Bin_rfid → waste_weight, waste_overload