Name: Hongliang Tang

ID：27135519

LICENCED DRIVER REPORT

UNF

DRIVER (lic_num, lic_status, f_name, l_name, address_street, address_town, address_postcode, d_of_birth, lic_exp_date, (lic_type), (date_sus, end_date), (date_cancelled, cancellation_period, reason_cancelled))

1NF

LICENSE_TYPE(**lic_num**, **lic_type**)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

SUSPENSION (**lic_num**, **date_sus**, end_date)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

CANCELLATION (**lic_num**, **date_cancelled**, cancellation_period, reason_cancelled)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no partial dependencies.

DRIVER (**<u>lic_num</u>**, lic_status, f_name, l_name, address_street, address_town, address_postcode, d_of_birth, lic_exp_date)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

2NF

LICENSE_TYPE(**<u>lic_num</u>**, **<u>lic_type</u>**)

SUSPENSION (**<u>lic_num</u>**, **<u>date_sus</u>**, end_date)

CANCELLATION (**<u>lic_num</u>**, **<u>date_cancelled</u>**, cancellation_period, reason_cancelled)

DRIVER (**<u>lic_num</u>**, lic_status, f_name, l_name, address_street, address_town, address_postcode, d_of_birth, lic_exp_date)

3NF

LICENSE_TYPE(**<u>lic_num</u>**, **<u>lic_type</u>**)

SUSPENSION (**<u>lic_num</u>**, **<u>date_sus</u>**, end_date)

CANCELLATION (**<u>lic_num</u>**, **<u>date_cancelled</u>**, cancellation_period, reason_cancelled)

DRIVER (**<u>lic_num</u>**, lic_status, f_name, l_name, address_street, address_town, address_postcode, d_of_birth, lic_exp_date)

Driver License Cancellation Report

UNF

LICENSE_DRIVER (lic_num,f_name,l_name, (date_cancelled, reason_cancelled, hearing_date, reinstatement_date))

1NF

CANCEL_DETAIL (**lic_num**, **date_cancelled**, reason_cancelled, hearing_date, reinstatement_date)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

LICENSE_DRIVER(**lic_num**,f_name,l_name)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

2NF

CANCEL_DETAIL(**lic_num**, **date_cancelled**, reason_cancelled, hearing_date, reinstatement_date)

LICENSE_DRIVER(**lic_num**,f_name,l_name)

3NF

CANCEL_DETAIL (**lic_num**, **date_cancelled**, reason_cancelled, hearing_date, reinstatement_date)

LICENSE_DRIVER(**lic_num**,f_name,l_name)

VEHICLE REPORT-Vehicle Details

UNF

VEHICLE (v_in, v_type, v_model, m_name, manu_year, v_colour, (regis_date, regis_num, deregis_date))

1NF

VEHICLE (**v_in**, v_type, model_name, manu_year, v_colour)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

REGISTRATION (**v_in**, **regis_date**, regis_num, deregis_date)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

2NF

VEHICLE (**v_in**, v_type, model_name, manu_year, v_colour)

REGISTRATION (**v_in**, **regis_date**, regis_num, deregis_date)

3NF

VEHICLE (**v_in**, v_type, model_name, manu_year, v_colour)

REGISTRATION (**v_in**, **regis_date**, regis_num, deregis_date)

VEHICLE REPORT-Model Details

UNF

VEHICLE_MODEL(**model_name**, model_transmission, engine_size, (e_type), laden_height, unladen_height, manu_code, manu_name, manu_country_name, manu_country_iso)

1NF

ENGINE_TYPE (**model_name**, **e_type**)

Show Dependencies:

PARTIAL: no partial dependencies.

TRANSITIVE: no transitive dependencies.

VEHICLE_MODEL(**model_name**, model_transmission, engine_size, laden_height, unladen_height, manu_code, manu_name, manu_country_name, manu_country_iso)

Show Dependencies:

PARTIAL:

no partial dependencies.

TRANSITIVE:

manu_country_iso -> manu_country_name

manu_code -> manu_name

2NF

ENGINE_TYPE (**model_name**, **e_type**)

VEHICLE_MODEL (**model_name**, model_transmission, engine_size, laden_height, unladen_height, manu_code, manu_name, manu_country_name, manu_country_iso)

3NF

MANUFACTURER (**manu_code**, manu_name)

COUNTRY (**manu_country_iso**, manu_country_name)

ENGINE_TYPE (**model_name**, **e_type**)

VEHICLE_MODEL (**model_name**, model_transmission, engine_size, laden_height, unladen_height)

COLLECTED 3NF Relations:

1.MANUFACTURER (**manu_code**, manu_name)

2.COUNTRY (**manu_country_iso**, manu_country_name)

3. ENGINE_TYPE (**model_name**, **e_type**)

4.VEHICLE_MODEL (**model_name**, model_transmission, engine_size, laden_height, unladen_height)

5.VEHICLE (**v_in**, v_type, model_name, manu_year, v_colour)

6.REGISTRATION (**v_in**, **regis_date**, regis_num, deregis_date)

7.LICENSE_TYPE(**lic_num**, **lic_type**)

8.SUSPENSION (**lic_num**, **date_sus**, end_date)

9.CANCELLATION (**lic_num**, **date_cancelled**, cancellation_period, reason_cancelled)

10.DRIVER (**lic_num**, lic_status, f_name, l_name, address_street, address_town, address_postcode, d_of_birth, lic_exp_date)

11.CANCEL_DETAIL (**lic_num**, **date_cancelled**, reason_cancelled, hearing_date, reinstatement_date)

12.LICENSE_DRIVER(**lic_num**,f_name,l_name)

ATTRIBUTE SYNTHESIS

1.

MANUFACTURER (**manu_code**, manu_name)

2.

COUNTRY (**manu_country_iso**, manu_country_name)

3.

ENGINE_TYPE (**model_name**, **e_type**)

4.

VEHICLE_MODEL (**model_name**, model_transmission, engine_size, laden_height, unladen_height)

5.

VEHICLE (**v_in**, v_type, model_name, manu_year, v_colour)

6.

REGISTRATION (**v_in**, **regis_date**, regis_num, deregis_date)

7**.**

LICENSE_TYPE(**lic_num**, **lic_type**)

8.

SUSPENSION (**lic_num**, **date_sus**, end_date)

9 & 11.

CANCELLATION (**lic_num**, **date_cancelled**, cancellation_period, reason_cancelled, hearing_date, reinstatement_date)

10 & 12.

DRIVER (**lic_num**, lic_status, f_name, l_name, address_street, address_town, address_postcode, d_of_birth, lic_exp_date)