Diagram:	Relational_1
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Modified by:	T1_Group04
Design:	cui_oraclemodel
Model:	Relational_1

CONTRACT

P	*	contract_no	NUMBER (7)
	*	contract_start_date	DATE
	*	contract_end_date	DATE
F	*	auth_name	VARCHAR2 (50)

CONTRACT_PK (contract_no)

authority_contract (auth_name)

AUTHORITY

P	*	auth_name	VARCHAR2 (50)
	*	auth_ceo_gname	VARCHAR2 (50)
	*	auth_ceo_fname	VARCHAR2 (50)
	*	auth_phone	CHAR (10)
	*	auth_total_area	NUMBER (8)
	*	auth_type	VARCHAR2 (16)

AUTHORITY_PK (auth_name)

STREET

P	*	street_id	NUMBER (7)
PF	*	auth_name	VARCHAR2 (50)
	*	street_name	VARCHAR2 (50)
	*	street_length	NUMBER (7)
	*	street_surface_type	VARCHAR2 (8)
	*	street_lanes_no	NUMBER (2)

STREET_PK (street_id, auth_name)

authority_street (auth_name)

PROPERTY

P	*	property_id	NUMBER (7)
U	*	property_street_no	NUMBER (7)
UF	*	street_id	NUMBER (7)
UF	*	auth_name	VARCHAR2 (50)

PROPERTY_PK (property_id)
PROPERTY_NK (property_street_no, street_id, auth_name)

street_property (street_id, auth_name)

OWNERLINE

PF	*	owner_id	NUMBER (7)
PF	*	property_id	NUMBER (7)

OWNERLINE_PK (owner_id, property_id)

owner_ownerline (owner_id)
property_ownerline (property_id)

OWNER

P	*	owner_id	NUMBER (7)
	*	owner_name	VARCHAR2 (50)
	*	owner_email	VARCHAR2 (50)
	*	owner_phone	CHAR (10)

OWNER_PK (owner_id)

BIN_COST

PF	*	bin_type_size	NUMBER (4)
PF	*	waste_type_id	VARCHAR2 (50)
PF	*	contract_no	NUMBER (7)
	*	bin_supply_cost	NUMBER (5,2)

BIN_COST_PK (bin_type_size, waste_type_id, contract_no)

bin_type_bin_cost (bin_type_size, waste_type_id)
contact_bin_cost (contract_no)

BIN

P	*	bin_rfid	VARCHAR2 (16)
		bin_replacement_reason	VARCHAR2 (30)
	*	bin_supply_date	DATE
F	*	bin_type_size	NUMBER (4)
F	*	waste_type_id	VARCHAR2 (50)
F	*	property_id	NUMBER (7)

BIN_PK (bin_rfid)

bin_type_bin (bin_type_size, waste_type_id)
property_bin (property_id)

CONTRACT_DETAIL

PF	*	waste_type_id	VARCHAR2 (50)
PF	*	contract_no	NUMBER (7)
	*	c_d_collection_cost	NUMBER (7,2)
	*	c_d_collection_freq	VARCHAR2 (11)

CONTRACT_COST_PK (waste_type_id, contract_no)

contract_contract_cost (contract_no)
waste_type_contract_cost (waste_type_id)

WASTE_TYPE

P	*	waste_type_id	VARCHAR2 (50)
U	*	waste_type_description	VARCHAR2 (50)

WASTE_TYPE_PK (waste_type_id)
Key_2 (waste_type_description)

BIN_TYPE

P	*	bin_type_size	NUMBER (4)
PF	*	waste_type_id	VARCHAR2 (50)
	*	bin_type_supply_cost	NUMBER (7,2)

BIN_TYPE_PK (bin_type_size, waste_type_id)

waste_type_bin_type (waste_type_id)

COLLECTION

P	*	collection_date	DATE
F		truck_vin	CHAR (17)
F		driver_no	NUMBER (7)
PF	*	waste_type_id	VARCHAR2 (50)
PF	*	contract_no	NUMBER (7)

COLLECTION_PK (collection_date, waste_type_id, contract_no)

collection_authorised_driver (truck_vin, driver_no)
contract_detail_collection (waste_type_id, contract_no)

BIN_COLLECTION_RECORD

PF	*	bin_rfid	VARCHAR2 (16)
PF	*	collection_date	DATE
F	*	waste_type_id	VARCHAR2 (50)
F	*	contract_no	NUMBER (7)
		bin_collection_collected_kgs	NUMBER (3)
	*	bin_collection_overweight	CHAR (1)

BIN_COLLECTION_RECORD_PK (bin_rfid, collection_date)

bin_collection_record_bin (bin_rfid)
col_bin_col_rec (collection_date, waste_type_id, contract_no)

TRUCK

P	*	truck_vin	CHAR (17)
	*	truck_rego_no	CHAR (9)
	*	truck_make	VARCHAR2 (50)
	*	truck_model	VARCHAR2 (50)
	*	truck_year	NUMBER (4)

TRUCK_PK (truck_vin)

AUTHORISED_DRIVER

PF	*	truck_vin	CHAR (17)
PF	*	driver_no	NUMBER (7)
	*	ad_approval_date	DATE

AUTHORISED_DRIVER_PK (truck_vin, driver_no)

driver_authorised_driver (driver_no)
truck_authorised_driver (truck_vin)

DRIVER

P	*	driver_no	NUMBER (7)
	*	driver_license_no	CHAR (9)
	*	driver_name	VARCHAR2 (50)
	*	driver_dob	DATE
	*	driver_tax_no	CHAR (9)
	*	driver_contact	CHAR (10)

DRIVER_PK (driver_no)

Relationship labels:
authority_contract, authority_street, street_property, property_ownerline, owner_ownerline, contact_bin_cost, property_bin, contract_contract_cost, bin_type_bin_cost, contract_detail_collection, waste_type_bin_type, bin_type_bin, bin_collection_record_bin, col_bin_col_rec, collection_authorised_driver, truck_authorised_driver, driver_authorised_driver, contract_cost