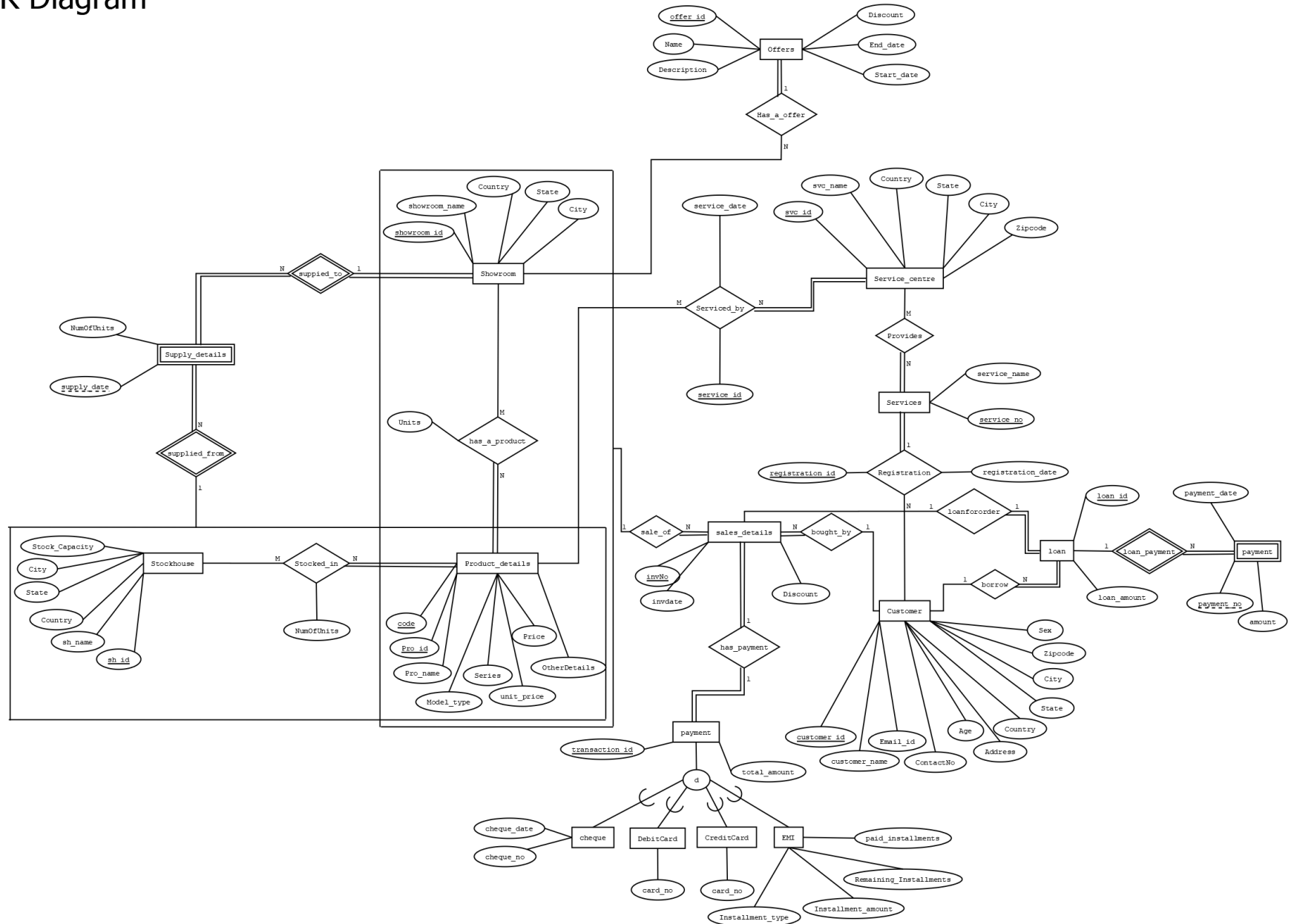


Database Management System

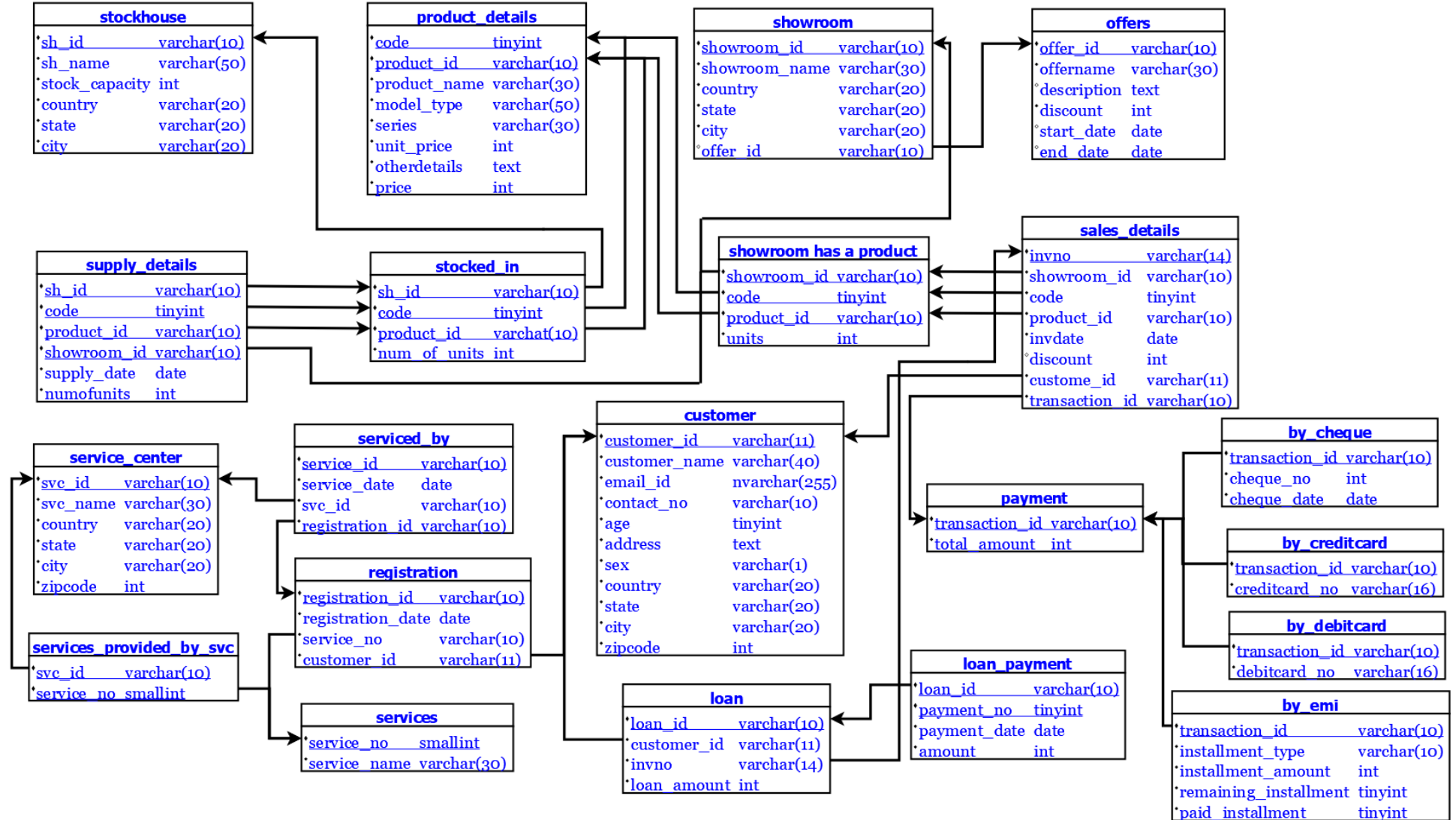
Toyota Motar Corporation Database Management System

Group 2.13

ER Diagram



Relational Schema



FUNCTIONAL DEPENDENCIES:

- $sh_id \rightarrow (sh_name, stock_capacity, country, state, city)$
- $(code, product_id) \rightarrow (product_name, model_type, series, mfg_date, price, otherdetails)$
- $showroom_id \rightarrow (showroom_name, stock_capacity, country, state, city)$
- $offer_id \rightarrow (offername, description, discount, start_date, end_date)$
- $(dealer_id, sh_id, code, product_id) \rightarrow (supply_date, numofunits)$
- $(sh_id, code, product_id) \rightarrow (num_of_units)$
- $(showroom_id, code, product_id) \rightarrow (units)$
- $invno \rightarrow (showroom_id, code, product_id, invdate, discount, customer_id, transaction_id)$
- $svc_id \rightarrow (svc_name, country, state, city, zipcode)$
- $service_id \rightarrow (service_date, svc_id, registration_id)$
- $registration_id \rightarrow (registration_date, service_id, customer_id)$
- $service_id \rightarrow service_name$
- $customer_id \rightarrow (customer_name, email_id, contact_no, age, address, sex, country, state, city, zipcode)$
- $loan_id \rightarrow (customer_id, invno, loan_amount, payment_no, payment_date, amount)$
- $transaction_id \rightarrow (cheque_no, cheque_date, total_amount, creditcard_no, creditcard_no, installment_no, installment_amount, remaining_installment, paid_installment)$

Entity service_provided_by_svc do not have any functional dependencies.

In each FDs determinant is a primary key of corresponding relation. So, **all relations are in BCNFs.**