

Database schema and integrity constraints and data insertion  
(populate simulated data satisfying the constraints)

Following sql files have been created which contains mentioned information -

SQL Script	Description
tables.sql	Contains commands to create various tables in 'behealthy' database
customer.sql	Insert commands to populate 'customer' table, this contains information about customers registered with 'behealthy' pharmacy. It also contains data for employees which are part of 'behealthy' pharmacy
medicine_details.sql	Insert commands to populate 'medicine_details' table, it has information about medicine
supplier.sql	Insert commands to populate 'supplier' table, this has details about different supplier to which order is placed to replenish medicines as needed
medicine_inventory.sql	Insert commands to populate 'medicine_inventory' table, same medicine can appear multiple times in this table with different lot_number
cart_details.sql	Insert commands to populate 'cart_details' table, this contains details about medicines added to cart by specific customer
invoice.sql	Insert commands to populate 'invoice' table, this contains information about invoices issued to different customer
invoice_details.sql	Insert commands to populate 'invoice_details' table, this contains details for medicines which have been ordered for a specific invoice
prescription.sql	Insert commands to populate 'prescription' table, this contains prescription associated with a specific invoice
prescription_details.sql	Insert commands to populate 'prescription_details' table, this contains information about medicines prescribed in a given prescription
supplier_medicine.sql	Insert commands to populate 'supplier_medicine' table, it contains information about medicines available with a given supplier
supplier_order.sql	Insert commands to populate 'supplier_order' table, this contains information about order placed with different supplier
supplier_order_details.sql	Insert commands to populate 'supplier_order_details' table, this contains details about a specific supplier order
employee.sql	Insert commands to populate 'employee' table, this contains information about employees of 'behealthy' pharmacy, each employee has additional information captured in 'customer' table

These SQL scripts are executed in above order while satisfying the integrity constraints to ensure that data for any table containing foreign key referencing another table is inserted after the data for table to which it refers have been inserted. Data population is done using bulk data generator with manual intervention to satisfy different constraints.