Phase 4 normalization:

Conventions: *Minimal Super key or Primary Key of a relation is given in blue shade with key names highlighted. Foreign keys are only highlighted.*

Note: All mapping arrows are reversed.

iPhone

Note: Release_date and Initial_value together form the foreign key.

iPhone_id	*Release_date*	*Initial_value*	Manufacturing_price	RAM	Storage	Outlet_id

iPhone_initial_release

Release_date	Initial_value	*Model_name*

iPhone_model

Model_name	Battery	Processor	Camera

Order

Order_id	Order_date	Order_price	Order_type	Source_of_info	*iPhone_id*	*Customer_id*

Order_Map

iPhone_id	*Outlet_id*

Order_SWC

Order_id	Specification_with_complaint

Customer

Customer_id	D_O_B	State	City

Employee

Employee_id	Performance_rating	Store_id	Dept_id

Department

Department_id	Department_name	Salary

Outlet

Outlet_id	City	State

Warehouse

Warehouse_id

Note: Warehouse and Store table(foreign keys) has mapping to Outlet table(primary key).

Store

Store_Id

Rates

Order_ID	Customer_id	Employee_id	Rating