

Functional Dependencies and Normalized form

Table Customer:

Initial Attributes: Customer ID, Name, Membership Type, Membership Fee

Functional Dependencies: Membership Type -> Membership Fee

Normalized Table:

Attributes: Customer ID, Name, Membership Type

Table Equipment:

Initial Attributes: machineID, lastMaintenance, machineName, quantity, workingProperly, MaintenanceCost

Functional Dependencies: machineID -> machineName

Normalized Table:

Attributes: machineID, lastMaintenance, quantity, workingProperly, MaintenanceCost

Table Expenses:

Initial Attributes: ExpenseID, purpose, Amount, Type

Functional Dependencies: None

Normalized Table: Same as initial table

Table Membership Plans:

Initial Attributes: Cost, Duration, Trainer, Membership Type

Functional Dependencies: Cost->Trainer, Trainer->Membership Type, Cost->Membership Type

Normalized Table:

Attributes: Cost, Duration

Table Staff:

Initial Attributes: employeeID, Name, Division, Salary

Functional Dependencies: None

Normalized Table: Same as initial Table