Data and Applications Assignment 2

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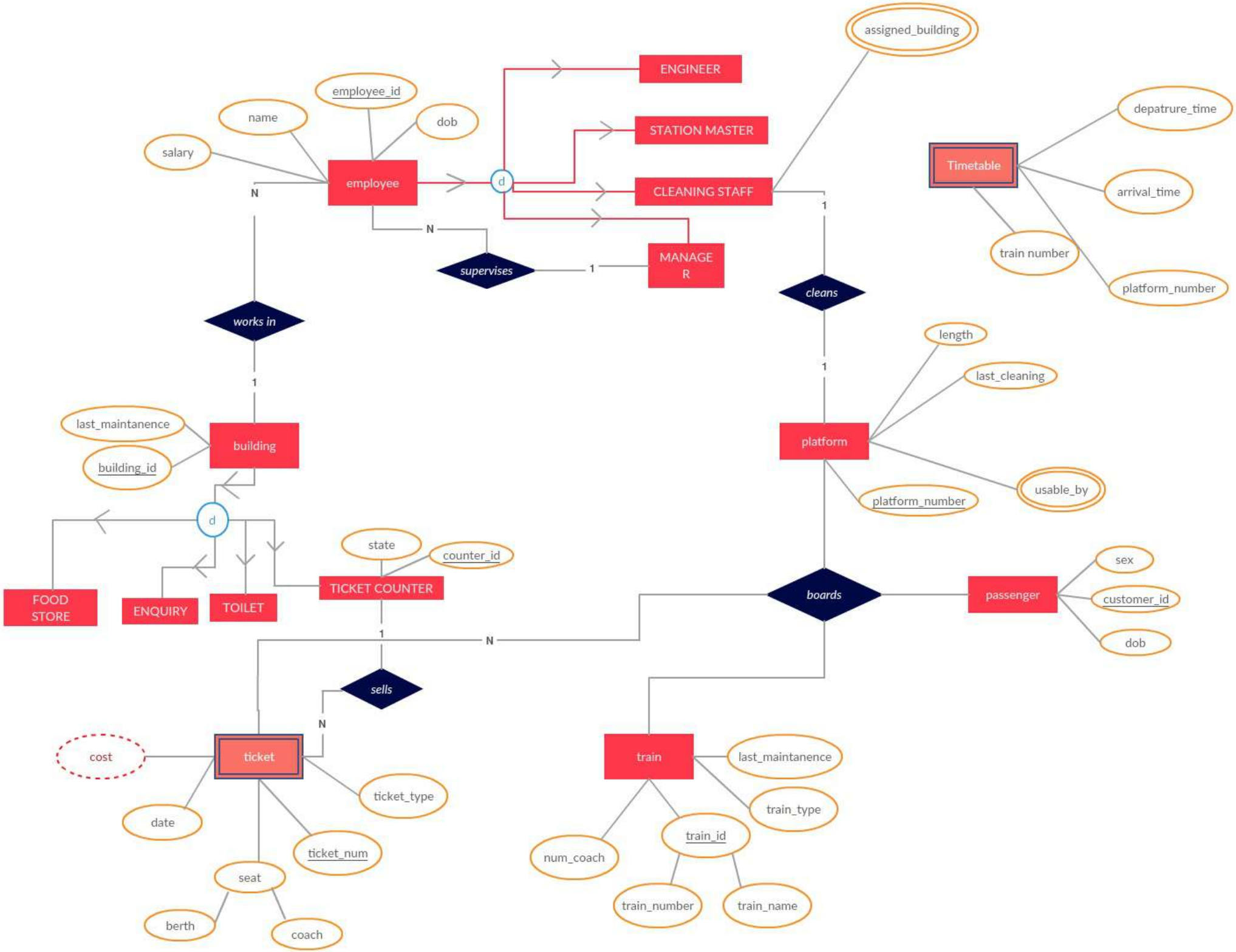
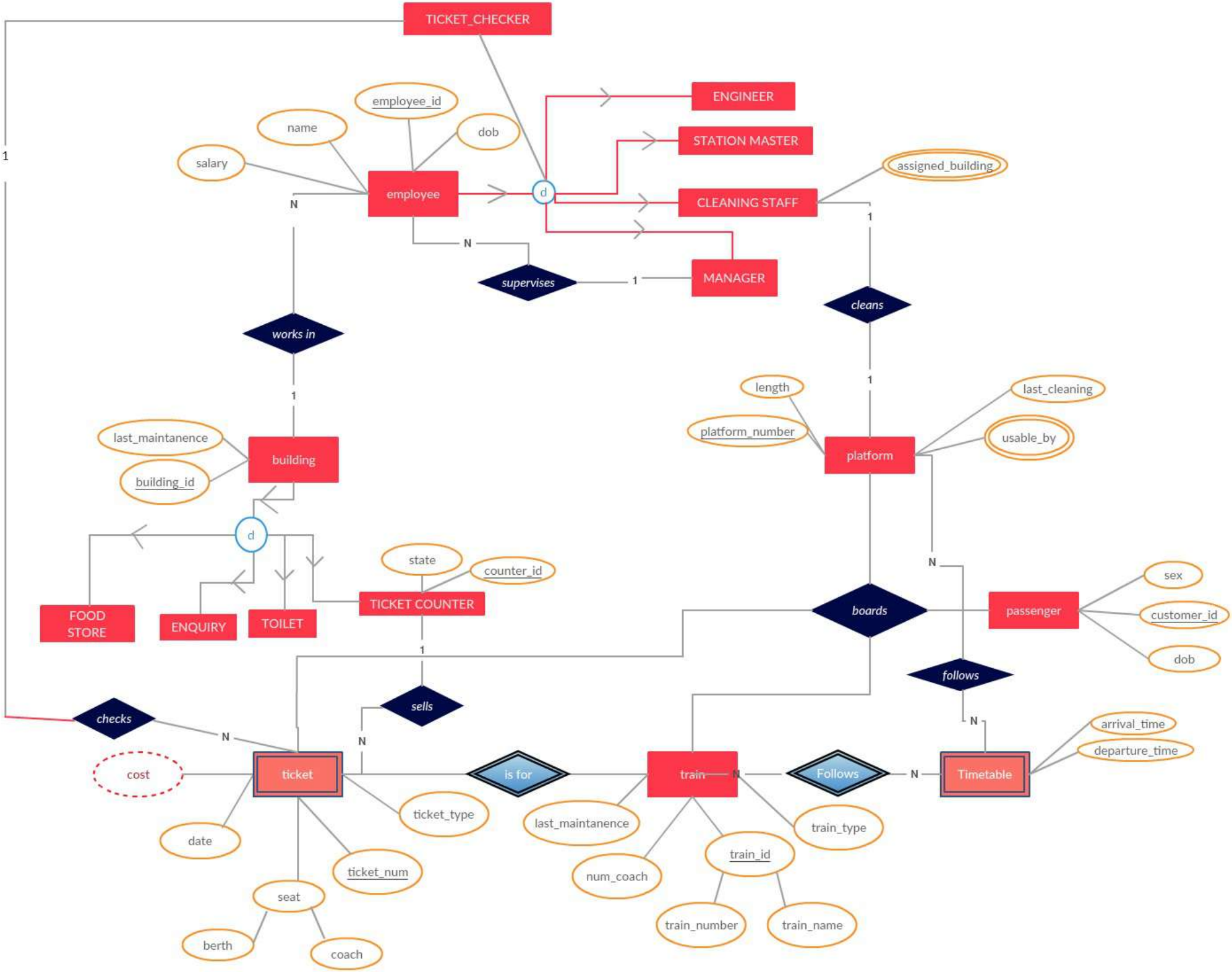

assigned_building
ENGINEER
employee_id
name
dob
STATION MASTER
salary
employee
d
CLEANING STAFF
depatrure_time
Timetable
arrival_time
N
1
N
supervises
1
MANAGE
R
train number
platform_number
cleans
works in
length
1
1
last_cleaning
last_maintanence
building
platform
building_id
usable_by
platform_number
d
state
counter_id
FOOD
STORE
ENQUIRY
TOILET
TICKET COUNTER
boards
passenger
sex
customer_id
dob
1
N
sells
N
cost
ticket
ticket_type
train
last_maintanence
date
train_type
ticket_num
num_coach
train_id
seat
train_number
train_name
berth
coach

Improvements

We made the following improvements to the ER-Diagram provided:

1. Created **follows** relationship between **trains** and **timetable**.
2. Created **follows** relationship between **platform** and **timetable**.
3. Changed the foreign key for referencing train from **train_number** to **train_id** since it is the primary key for the *train* table.
4. Added a missing sub-class of the employee entity type to justify the relationship **checks**.


TICKET_CHECKER
ENGINEER
STATION MASTER
CLEANING STAFF
MANAGER
employee_id
name
dob
salary
employee
d
assigned_building
supervises
works in
cleans
length
platform_number
platform
last_cleaning
usable_by
last_maintanence
building_id
building
d
FOOD STORE
ENQUIRY
TOILET
state
counter_id
TICKET COUNTER
boards
passenger
sex
customer_id
dob
follows
checks
sells
cost
ticket
is for
train
Follows
Timetable
arrival_time
departure_time
ticket_type
date
ticket_num
seat
berth
coach
last_maintanence
num_coach
train_id
train_number
train_name
train_type
1
N