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1. Introduction

Our final project will be based on a rental store database. There are 12 tables: Tables 2.1 - 2.3 are based on customer details and data regarding orders that customers made. Tables 2.4 - 2.6 are suppliers and their order details. Tables 2.7 - 2.9 include employees of the store and their pay. Tables 2.10 – 2.12 are inventory and store earnings tables. We will be using "{}" curly brackets to indicate the key types of the attributes in the tables, and "()" parentheses to indicate composite attributes (e.g. "location" attribute includes (city, state, zip)).

2. Entity Definitions

2.1 customer - The customer table includes these attributes:

id {primary key, UUID},

name (first_name, last_name),

address (street_address, city, state, area_code),

email

created_at

2.2 rental - The rental table includes the attributes:

customer_id {primary key, foreign key, UUID}

product_id {primary key, foreign key, UUID}

location_id

rental_date

due_date

return_date

cost

2.3 request - The request table has the attributes:

customer_id {primary key, foreign key, UUID}

product_id {primary key, foreign key, UUID}

location_id

2.4 supplier – The suppliers table contains the attributes:

id {primary key}

address {primary key} (street number, city, state, zip)

name

contact_name (first_name, last_name)

contact_email

contact_phone

2.5 order_detail – The order_detail table contains the attributes:

order_id {primary key}

product_id {primary key}

quantity

2.6 inventory_order - The inventory_order table contains:

id {primary key}

placed_by {foreign key, UUID}

total

created_at

2.7 employee – The employee table contains these attributes:

id {primary key, UUID}

location_id {foreign key}

name (firstName, lastName)

address (streetAddress, city, state, areaCode)

email

phone_number

created_at

2.8 employee_location – The employee_location table contains these attributes:

employee_id {primary key, foreign key, UUID}

location_id {primary key, foreign key, UUID}

hourly_wage

2.9 employee_timesheet – The employee_timesheet table contains these attributes:

employee_id {primary key, foreign key, UUID}

location_id {primary key, foreign key, UUID}

clocked_in

clocked_out

2.10 inventory – The inventory table contains the attributes:

location_id {primary key, foreign key, UUID}

product_id {primary key, foreign key, UUID}

quantity

updated_at

2.11 product – The product table contains these attributes:

id {primary key, UUID}

title

publisher

release_date

2.12 location – The location table contains the attributes:

id {primary key}

manager {foreign key, UUID}

address (streetAddress, city, state, areaCode)

3. Conclusion

In this document, we have provided an overview of our rental store database, including the entity definitions and the structure of the 12 tables that comprise it. These tables are designed to capture a wide range of data related to the operation of a rental store, from customer information to inventory management and financial transactions.