

Precious Metals

Milestone: Logical Model (Relational Model)

Group 6

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Percentage of Effort Contributed by Student1: 50%

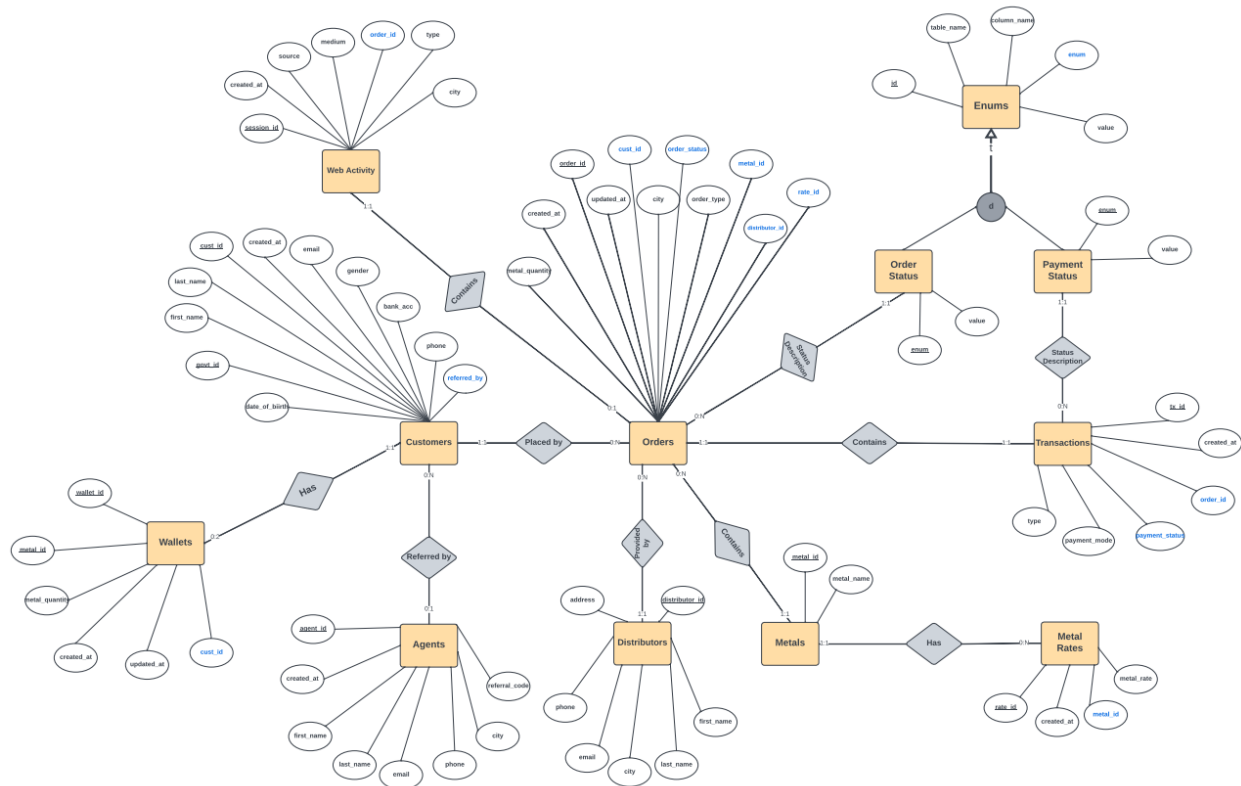
Percentage of Effort Contributed by Student2: 50%

Signature of Student 1 : Sanidhya Karnik

Signature of Student 2 : Digvijay Raut

Submission Date : 10-28-2023

Enhanced Entity Relationship



Logical Model (Relational Model)

- 1) **Web Activity** (session_id, created_at, source, medium, **order_id**, type, city)
 - session_id is the primary key
 - order_id is the foreign key referring to order_id from the relation - Orders and can be null
- 2) **Orders** (order_id, created_at, updated_at, order_type, **metal_id**, metal_quantity, **rate_id**, **distributor_id**, **order_status**, **cust_id**, city)
 - order_id is the primary key

- metal_id is a foreign key referring to metal_id in the relation - Metals and cannot be null
- rate_id is a foreign key referring to rate_id in the relation - Metal Rates cannot be null
- distributor_id is a foreign key referring to distributor_id in the relation - Distributors and cannot be null
- order_status is a foreign key referring to enum in the relation - Order Status and cannot be null
- cust_id is a foreign key referring to cust_id in the relation - Customers and cannot be null

3) **Enums** (id, table_name, column_name, **enum**, value)

- This relation is a superclass
- id is the primary key
- enum is the foreign key referring to enum in the subclasses - Order Status and Payment Status and cannot be null

4) **Order Status** (enum, value)

- This relation is a subclass under the super class - Enums
- enum is the primary key

5) **Payment Status** (enum, value)

- This relation is a subclass under the super class - Enums
- enum is the primary key

6) **Customers** (cust_id, first_name, last_name, created_at, phone, email, date_of_birth, gender, govt_id, bank_acc, **referred_by**)

- cust_id is the primary key
- referred_by is the foreign key referring to agent_id in the relation - Agents and can be null

7) **Transactions** (tx_id, created_at, **order_id**, **payment_status**, payment_mode, type)

- tx_id is the primary key
- order_id is a foreign key referring to order_id in the relation Orders and cannot be null
- payment_status is a foreign key referring to enum in the relation - Payment Status and cannot be null

8) **Wallets** (wallet_id, metal_id, metal_quantity, created_at, updated_at, **cust_id**)

- wallet_id is the primary key

- cust_id is the foreign key referring to cust_id in the relation - Customers
- 9) **Agents** (agent_id, created_at, first_name, last_name, email, phone, city, referral_code)
- agent_id is the primary key
- 10) **Distributors** (distributor_id, first_name, last_name, phone, email, city, address)
- distributor_id is the primary key
- 11) **Metals** (metal_id, metal_name)
- metal_id is the primary key
- 12) **Metal Rates** (rate_id, created_at, metal_id, metal_rate)
- rate_id is the primary key
 - metal_id is the foreign key referring to metal_id in the relation - Metals