Data Dictionary

1. Cart

CREATE TABLE IF NOT EXISTS public.cart

(

    cart_id numeric(10, 0) NOT NULL,

    ttl_amt numeric(10, 2) NOT NULL,

    ttl_qty numeric(5, 0) NOT NULL,

    PRIMARY KEY (cart_id)

);

```
e_commerce=# \d cart;
                 Table "public.cart"
 Column  |     Type      | Collation | Nullable | Default
---------+---------------+-----------+----------+---------
 cart_id | numeric(10,0) |           | not null |
 ttl_amt | numeric(10,2) |           | not null |
 ttl_qty | numeric(5,0)  |           | not null |
Indexes:
    "cart_pkey" PRIMARY KEY, btree (cart_id)
Referenced by:
    TABLE "cart_product" CONSTRAINT "fk_cart_product_cart" FOREIGN KEY (cart_id) REFERENCES cart(cart_id) ON UPDATE CASCADE NOT VALID
    TABLE "orders" CONSTRAINT "fk_orders_cart" FOREIGN KEY (cart_id) REFERENCES cart(cart_id) ON UPDATE CASCADE NOT VALID
```

2. Cart Product

CREATE TABLE IF NOT EXISTS public.cart_product

(

    cart_id numeric(10, 0) NOT NULL,

    prod_id numeric(10, 0) NOT NULL,

    qty numeric(5, 0) NOT NULL,

    PRIMARY KEY (cart_id, prod_id)

);

ALTER TABLE public.cart_product

    ADD FOREIGN KEY (cart_id)

    REFERENCES public.cart (cart_id)

    NOT VALID;

```
e_commerce=# \d cart_product;
            Table "public.cart_product"
 Column  |     Type      | Collation | Nullable | Default
---------+---------------+-----------+----------+---------
 cart_id | numeric(10,0) |           | not null |
 prod_id | numeric(10,0) |           | not null |
 qty     | numeric(5,0)  |           | not null |
Indexes:
    "cart_product_pkey" PRIMARY KEY, btree (cart_id, prod_id)
    "fki_fk_cart_product_cart" btree (cart_id)
Foreign-key constraints:
    "fk_cart_product_cart" FOREIGN KEY (cart_id) REFERENCES cart(cart_id) ON UPDATE CASCADE NOT VALID
```

3. Category

CREATE TABLE IF NOT EXISTS public.category

(

   cat_id numeric(10, 0) NOT NULL,

   cat_name character varying(50) NOT NULL,

   PRIMARY KEY (cat_id)

);

```
e_commerce=# \d category;
                  Table "public.category"
  Column  |         Type          | Collation | Nullable | Default
----------+-----------------------+-----------+----------+---------
 cat_id   | numeric(10,0)         |           | not null |
 cat_name | character varying(50) |           | not null |
Indexes:
    "category_pkey" PRIMARY KEY, btree (cat_id)
Referenced by:
    TABLE "sub_category" CONSTRAINT "fk_sub_category_category" FOREIGN KEY (cat_id) REFERENCES category(cat_id) ON UPDATE CASCADE NOT VALID
```

4. Customer

CREATE TABLE IF NOT EXISTS public.customer

(

   cust_id numeric(10, 0) NOT NULL,

   user_id numeric(10, 0) NOT NULL,

   PRIMARY KEY (cust_id)

);

ALTER TABLE public.customer

   ADD FOREIGN KEY (user_id)

   REFERENCES public.user_info (user_id)

   NOT VALID;

```
e_commerce=# \d customer;
                Table "public.customer"
 Column |     Type      | Collation | Nullable | Default
--------+---------------+-----------+----------+--------
 cust_id | numeric(10,0) |           | not null |
 user_id | numeric(10,0) |           | not null |
Indexes:
    "customer_pkey" PRIMARY KEY, btree (cust_id)
    "fki_fk_customer_user_info" btree (user_id)
Foreign-key constraints:
    "fk_customer_user_info" FOREIGN KEY (user_id) REFERENCES user_info(user_id) ON UPDATE CASCADE NOT VALID
Referenced by:
    TABLE "orders" CONSTRAINT "fk_orders_customer" FOREIGN KEY (cust_id) REFERENCES customer(cust_id) ON UPDATE CASCADE NOT VALID
    TABLE "review" CONSTRAINT "fk_review_customer" FOREIGN KEY (cust_id) REFERENCES customer(cust_id) ON UPDATE CASCADE NOT VALID
```

5. Orders

CREATE TABLE IF NOT EXISTS public.orders

(

   ord_id numeric(10, 0) NOT NULL,

   cust_id numeric(10, 0) NOT NULL,

   cart_id numeric(10, 0) NOT NULL,

   ord_date date NOT NULL,

   del_date date NOT NULL,

   PRIMARY KEY (ord_id)

);

ALTER TABLE public.orders

   ADD FOREIGN KEY (cart_id)

   REFERENCES public.cart (cart_id)

   NOT VALID;

ALTER TABLE public.orders

   ADD FOREIGN KEY (cust_id)

   REFERENCES public.customer (cust_id)

   NOT VALID;

```
e_commerce=# \d orders;
                Table "public.orders"
  Column  |     Type      | Collation | Nullable | Default
----------+---------------+-----------+----------+---------
 ord_id   | numeric(10,0) |           | not null |
 cust_id  | numeric(10,0) |           | not null |
 cart_id  | numeric(10,0) |           | not null |
 ord_date | date          |           | not null |
 del_date | date          |           | not null |
Indexes:
    "orders_pkey" PRIMARY KEY, btree (ord_id)
    "fki_fk_orders" btree (cart_id)
    "fki_fk_orders_customer" btree (cust_id)
Foreign-key constraints:
    "fk_orders_cart" FOREIGN KEY (cart_id) REFERENCES cart(cart_id) ON UPDATE CASCADE NOT VALID
    "fk_orders_customer" FOREIGN KEY (cust_id) REFERENCES customer(cust_id) ON UPDATE CASCADE NOT VALID
Referenced by:
    TABLE "payment" CONSTRAINT "fk_payment_orders" FOREIGN KEY (ord_id) REFERENCES orders(ord_id) ON UPDATE CASCADE NOT VALID
    TABLE "shipper" CONSTRAINT "fk_shipper_orders" FOREIGN KEY (ord_id) REFERENCES orders(ord_id) ON UPDATE CASCADE NOT VALID
```

6. <u>Payment</u>

CREATE TABLE IF NOT EXISTS public.payment

(

   pay_id numeric(10, 0) NOT NULL,

   ord_id numeric(10, 0) NOT NULL,

   pay_type character varying(30) NOT NULL,

   ttl_amt numeric(10, 2) NOT NULL,

   PRIMARY KEY (pay_id)

);

ALTER TABLE public.payment

   ADD FOREIGN KEY (ord_id)

   REFERENCES public.orders (ord_id)

   NOT VALID;

```
e_commerce=# \d payment;
                    Table "public.payment"
  Column   |         Type          | Collation | Nullable | Default
-----------+-----------------------+-----------+----------+---------
 pay_id    | numeric(10,0)         |           | not null |
 ord_id    | numeric(10,0)         |           | not null |
 pay_type  | character varying(30) |           | not null |
 ttl_amt   | numeric(10,2)         |           | not null |
Indexes:
    "payment_pkey" PRIMARY KEY, btree (pay_id)
    "fki_fk_payment_orders" btree (ord_id)
Foreign-key constraints:
    "fk_payment_orders" FOREIGN KEY (ord_id) REFERENCES orders(ord_id) ON UPDATE CASCADE NOT VALID
```

7. __Product__

CREATE TABLE IF NOT EXISTS public.product

(

    prod_id numeric(10, 0) NOT NULL,

    sup_id numeric(10, 0) NOT NULL,

    scat_id numeric(10, 0) NOT NULL,

    prod_name character varying(50) NOT NULL,

    quantity numeric(6, 0) NOT NULL,

    price numeric(10, 2) NOT NULL,

    discount numeric(5, 2) NOT NULL,

    PRIMARY KEY (prod_id)

);

ALTER TABLE public.product

    ADD FOREIGN KEY (scat_id)

    REFERENCES public.sub_category (scat_id)

    NOT VALID;

ALTER TABLE public.product

    ADD FOREIGN KEY (sup_id)

    REFERENCES public.supplier (sup_id)

    NOT VALID;

```
e_commerce=# \d product;
                  Table "public.product"
  Column  |         Type          | Collation | Nullable | Default
----------+-----------------------+-----------+----------+---------
 prod_id  | numeric(10,0)         |           | not null |
 sup_id   | numeric(10,0)         |           | not null |
 scat_id  | numeric(10,0)         |           | not null |
 prod_name| character varying(50) |           | not null |
 quantity | numeric(6,0)          |           | not null |
 price    | numeric(10,2)         |           | not null |
 discount | numeric(5,2)          |           | not null |
Indexes:
    "product_pkey" PRIMARY KEY, btree (prod_id)
    "fki_fk_product_sub_category" btree (scat_id)
    "fki_fk_product_supplier" btree (sup_id)
Foreign-key constraints:
    "fk_product_sub_category" FOREIGN KEY (scat_id) REFERENCES sub_category(scat_id) ON UPDATE CASCADE NOT VALID
    "fk_product_supplier" FOREIGN KEY (sup_id) REFERENCES supplier(sup_id) ON UPDATE CASCADE NOT VALID
Referenced by:
    TABLE "review" CONSTRAINT "fk_review_product" FOREIGN KEY (prod_id) REFERENCES product(prod_id) ON UPDATE CASCADE NOT VALID
```

8. Review

CREATE TABLE IF NOT EXISTS public.review

(

    prod_id numeric(10, 0) NOT NULL,

    cust_id numeric(10, 0) NOT NULL,

    rev_desc character varying(100) NOT NULL,

    PRIMARY KEY (prod_id, cust_id)

);

ALTER TABLE public.review

    ADD FOREIGN KEY (prod_id)

    REFERENCES public.product (prod_id)

    NOT VALID;

```
e_commerce=# \d review;
                   Table "public.review"
  Column |          Type          | Collation | Nullable | Default
---------+------------------------+-----------+----------+---------
 prod_id | numeric(10,0)          |           | not null |
 cust_id | numeric(10,0)          |           | not null |
 rev_desc | character varying(100) |           | not null |
Indexes:
    "review_pkey" PRIMARY KEY, btree (prod_id, cust_id)
    "fki_fk_review_customer" btree (cust_id)
    "fki_fk_review_product" btree (prod_id)
Foreign-key constraints:
    "fk_review_customer" FOREIGN KEY (cust_id) REFERENCES customer(cust_id) ON UPDATE CASCADE NOT VALID
    "fk_review_product" FOREIGN KEY (prod_id) REFERENCES product(prod_id) ON UPDATE CASCADE NOT VALID
```

9. Shipper

CREATE TABLE IF NOT EXISTS public.shipper

(

    ship_id numeric(10, 0) NOT NULL,

    ord_id numeric(10, 0) NOT NULL,

    phn_no numeric(10, 0) NOT NULL,

    s_name character varying(50) NOT NULL,

    PRIMARY KEY (ship_id, ord_id)

);

```
e_commerce=# \d shipper;
                    Table "public.shipper"
 Column  |         Type          | Collation | Nullable | Default
---------+-----------------------+-----------+----------+---------
 ship_id | numeric(10,0)         |           | not null |
 ord_id  | numeric(10,0)         |           | not null |
 phn_no  | numeric(10,0)         |           | not null |
 s_name  | character varying(50) |           | not null |
Indexes:
    "shipper_pkey" PRIMARY KEY, btree (ship_id, ord_id)
    "fki_fk_shipper_orders" btree (ord_id)
Foreign-key constraints:
    "fk_shipper_orders" FOREIGN KEY (ord_id) REFERENCES orders(ord_id) ON UPDATE CASCADE NOT VALID
```

10.Sub Category

CREATE TABLE IF NOT EXISTS public.sub_category

(

    scat_id numeric(10, 0) NOT NULL,

    cat_id numeric(10, 0) NOT NULL,

    scat_name character varying(50) NOT NULL,

    PRIMARY KEY (scat_id)

);

ALTER TABLE public.sub_category

    ADD FOREIGN KEY (cat_id)

    REFERENCES public.category (cat_id)

    NOT VALID;

```
e_commerce=# \d sub_category;
                 Table "public.sub_category"
  Column   |         Type          | Collation | Nullable | Default
-----------+-----------------------+-----------+----------+---------
 scat_id   | numeric(10,0)         |           | not null |
 cat_id    | numeric(10,0)         |           | not null |
 scat_name | character varying(50) |           | not null |
Indexes:
    "sub category_pkey" PRIMARY KEY, btree (scat_id)
    "fki_fk_sub_category_category" btree (cat_id)
Foreign-key constraints:
    "fk_sub_category_category" FOREIGN KEY (cat_id) REFERENCES category(cat_id) ON UPDATE CASCADE NOT VALID
Referenced by:
    TABLE "product" CONSTRAINT "fk_product_sub_category" FOREIGN KEY (scat_id) REFERENCES sub_category(scat_id) ON UPDATE CASCADE NOT VALID
```

11. Supplier

CREATE TABLE IF NOT EXISTS public.supplier

(

    sup_id numeric(10, 0) NOT NULL,

    user_id numeric(10, 0) NOT NULL,

    comp_name character varying(50) NOT NULL,

    PRIMARY KEY (sup_id)

);

ALTER TABLE public.shipper

    ADD FOREIGN KEY (ord_id)

    REFERENCES public.orders (ord_id)

    NOT VALID;

ALTER TABLE public.supplier

    ADD FOREIGN KEY (user_id)

    REFERENCES public.user_info (user_id)

    NOT VALID;

```
e_commerce=# \d supplier;
                 Table "public.supplier"
  Column   |         Type          | Collation | Nullable | Default
-----------+-----------------------+-----------+----------+---------
 sup_id    | numeric(10,0)         |           | not null |
 user_id   | numeric(10,0)         |           | not null |
 comp_name | character varying(50) |           | not null |
Indexes:
    "supplier_pkey" PRIMARY KEY, btree (sup_id)
    "fki_fk_supplier_user_info" btree (user_id)
Foreign-key constraints:
    "fk_supplier_user_info" FOREIGN KEY (user_id) REFERENCES user_info(user_id) ON UPDATE CASCADE NOT VALID
Referenced by:
    TABLE "product" CONSTRAINT "fk_product_supplier" FOREIGN KEY (sup_id) REFERENCES supplier(sup_id) ON UPDATE CASCADE NOT VALID
```

12. User Information

CREATE TABLE IF NOT EXISTS public.user_info

(

    user_id numeric(10, 0) NOT NULL,

    first_name character varying(20) NOT NULL,

    last_name character varying(20) NOT NULL,

    email_id character varying(50) NOT NULL,

    dob date,

    phn_no1 numeric(10, 0) NOT NULL,

phn_no2 numeric(10, 0),

address character varying(100) NOT NULL,

pincode numeric(6, 0) NOT NULL,

city character varying(30) NOT NULL,

state character varying(30) NOT NULL,

PRIMARY KEY (user_id)

);

```
e_commerce=# \d user_info;
                    Table "public.user_info"
   Column    |          Type          | Collation | Nullable | Default
-------------+------------------------+-----------+----------+---------
 user_id     | numeric(10,0)          |           | not null |
 first_name  | character varying(10)  |           | not null |
 last_name   | character varying(10)  |           | not null |
 email_id    | character varying(50)  |           | not null |
 dob         | date                   |           |          |
 phn_no1     | numeric(10,0)          |           | not null |
 phn_no2     | numeric(10,0)          |           |          |
 address     | character varying(100) |           | not null |
 pincode     | numeric(6,0)           |           | not null |
 city        | character varying(30)  |           | not null |
 state       | character varying(30)  |           | not null |
Indexes:
    "user_info_pkey" PRIMARY KEY, btree (user_id)
Referenced by:
    TABLE "customer" CONSTRAINT "fk_customer_user_info" FOREIGN KEY (user_id) REFERENCES user_info(user_id) ON UPDATE CASCADE NOT VALID
    TABLE "supplier" CONSTRAINT "fk_supplier_user_info" FOREIGN KEY (user_id) REFERENCES user_info(user_id) ON UPDATE CASCADE NOT VALID
```

Schema Diagram

public
user_info
- user_id numeric(10,0)
- first_name character varying(20)
- last_name character varying(20)
- email_id character varying(50)
- dob date
- phn_no1 numeric(10,0)
- phn_no2 numeric(10,0)
- address character varying(100)
- pincode numeric(6,0)
- city character varying(30)
- state character varying(30)

public
category
- cat_id numeric(10,0)
- cat_name character varying(50)

public
supplier
- sup_id numeric(10,0)
- user_id numeric(10,0)
- comp_name character varying(50)

public
sub_category
- scat_id numeric(10,0)
- cat_id numeric(10,0)
- scat_name character varying(50)

public
customer
- cust_id numeric(10,0)
- user_id numeric(10,0)

public
product
- prod_id numeric(10,0)
- sup_id numeric(10,0)
- scat_id numeric(10,0)
- prod_name character varying(50)
- quantity numeric(6,0)
- price numeric(10,2)
- discount numeric(5,2)

public
review
- prod_id numeric(10,0)
- cust_id numeric(10,0)
- rev_desc character varying(100)

public
cart_product
- cart_id numeric(10,0)
- prod_id numeric(10,0)
- qty numeric(5,0)

public
orders
- ord_id numeric(10,0)
- cust_id numeric(10,0)
- cart_id numeric(10,0)
- ord_date date
- del_date date

public
cart
- cart_id numeric(10,0)
- ttl_amt numeric(10,2)
- ttl_qty numeric(5,0)

public
shipper
- ship_id numeric(10,0)
- ord_id numeric(10,0)
- phn_no numeric(10,0)
- s_name character varying(50)

public
payment
- pay_id numeric(10,0)
- ord_id numeric(10,0)
- pay_type character varying(30)
- ttl_amt numeric(10,2)