# 8. Supabase Database Schema (SQL & Explanations)

Use PostgreSQL on Supabase. Below are the core tables and an example CREATE TABLE DDL for each. Run them in Supabase SQL editor or your migration tool.  
  
Note: UUIDs, timestamps, and JSONB are used for flexibility and compatibility with personalization.

## Table: users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Unique user ID |
| name | text | — | NOT NULL | Full name of user |
| email | text | — | NOT NULL, UNIQUE | Used for login |
| password\_hash | text | — | NOT NULL | Hashed password |
| email\_verified | bool | false | — | If email is verified or not |
| phone | text |  |  | Phone/mobile number |
| is\_active | bool | true | — | If the user account is active |
| created\_at | timestamptz | now() | — | Timestamp of registration |
| updated\_at | timestamptz | now() | — | Timestamp of updattion |
| last\_login | timestamptz |  | — | Timestamp of last login |

## Table: addresses

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Unique address ID |
| user\_id | uuid | — | FOREIGN KEY → users.id | Owner of the address |
| line1 | text | — | NOT NULL | Address line 1 |
| line2 | text | — | — | Optional additional address |
| city | text | — | NOT NULL | City name |
| state | text | — | NOT NULL | State/Province |
| country | text | 'India' | — | Default India |
| zip\_code | text | — | NOT NULL | Postal code |
| is\_default | bool | false | — | If the address is default for user |
| address\_type | text | ‘home’::text | — | Home, work, etc |
| phone | text | — | — | Receipients phone number |
| landmark | text | — | — | Address near landmark |
| created\_at | timestamptz | now() | — | Created timestamp |

## Table: products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Product ID |
| title | text | — | NOT NULL | Product name |
| description | text | — | — | Product details |
| price | int4 | — | NOT NULL | Base price (no decimals) |
| stock | Int4 | — | NOT NULL | No of stock |
| category\_id | uuid | — | FK to category.id | Category name |
| img\_url | text | — | — | Cloudinary URLs |
| created\_at | timestamptz | now() | — | Created timestamp |
| sku | text | — | UNIQUE | Product SKU |
| has\_variants | bool | false | — | If the product has vairants. |

## Table: product\_variants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Variant ID |
| product\_id | uuid | — | FOREIGN KEY → products.id ON DELETE CASCADE | Parent product |
| sku | text | — | UNIQUE | Variant SKU |
| attributes | jsonb | — | — | e.g. {"color": "Pink", "size": "Small"} |
| price | int4 | — | — | Variant-specific price |
| stock | int4 | — | — | Available stock |
| is\_default | bool | false | — | Default variant for a product |
| weight | float8 | — | — | Weight of the product |
| img\_url | text | — | — | Variant’s img url from cloudinary |

## Table: orders

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Order ID |
| user\_id | uuid | — | FOREIGN KEY → users.id | Buyer |
| status | text | 'pending' | — | pending / confirmed / shipped / delivered / cancelled |
| subtotal | int4 | — | — | Item total before shipping/discount |
| shipping\_cost | int4 | — | — | Delivery charge |
| final\_total | int4 | — | — | Final payable amount |
| shipping\_address | jsonb | — | — | Snapshot of delivery address |
| payment\_status | text | 'unpaid' | — | unpaid / paid / refunded / failed |
| payment\_id | text | — | UNIQUE | Transaction ID (Razorpay/Stripe) |
| created\_at | timestamptz | now() | — | Order created timestamp |
| placed\_at | timestamptz | now() | — | Time at which order was placed. |
| custom\_bundle\_id | uuid | — | FK → custom\_bundles.id | Links order to a specific user-created bundle |
| bundle\_type | text | 'single' | — | ‘single’, ‘brand\_bundle’, or ‘custom\_bundle’ |

## Table: order\_items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Order item ID |
| order\_id | uuid | — | FOREIGN KEY → orders.id | Associated order |
| product\_variant\_id | uuid | — | FOREIGN KEY → product\_variants.id | Purchased variant |
| quantity | int4 | 1 | NOT NULL | Quantity ordered |
| price | int4 | 0 | NOT NULL | Price snapshot at order time |
| created\_at | timestamptz | now() | — | Order item created timestamp |
| bundle\_origin | text | — | — | ‘brand\_bundle’, ‘custom\_bundle’, or NULL |
| bundle\_id | uuid | — | — | Links to bundles.id, custom\_bundles.id, or bundle\_user\_public.id |

## Table: payments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Payment ID |
| user\_id | uuid | — | FOREIGN KEY → user.id | FK to user.id |
| order\_id | uuid | — | FOREIGN KEY → orders.id | FK to order.id |
| provider | text | ‘RazorPay’::text | NOT NULL | Razorpay/Stripe |
| payment\_id | text | — | — | Razorpay payment id |
| amount | int4 | — | NOT NULL | Final amount to be paid |
| currency | text | ‘INR’::text | NOT NULL | Which Currency |
| status | text | — | NOT NULL | Status of payment. |
| is\_success | bool | false | — | If the payment is succeded |
| failure\_msg | text | — | — | Error msg if payment gets failed |
| created\_at | timestamptz | now() | — | Timestamp |

## Table: shipments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Shipment ID |
| order\_id | uuid | — | FOREIGN KEY → orders.id | Related order |
| courier | text | — | — | Courier name |
| awb | text | — | UNIQUE | Air Waybill (tracking ID) |
| status | text | “packing”::text | — | shipped / in\_transit / delivered |
| estimated\_delivery | date | — | — | Expected arrival date |
| tracking\_history | jsonb | — | — | Courier updates |
| created\_at | timestamptz | now() | — | Timestamp created |

## Table: gift\_previews

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Preview ID |
| user\_id | uuid | — | FOREIGN KEY → users.id | Owner |
| preview\_url | text | — | — | Cloudinary link for preview |
| personalization | jsonb | — | — | e.g. {"text": "Happy Birthday Kajal"} |
| created\_at | timestamptz | now() | — | Created timestamp |

## Table: categories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Category ID |
| name | text | — | NOT NULL, UNIQUE | Category name (e.g. 'Pouches') |
| description | text | — | — | Optional category description |
| created\_at | timestamptz | now() | — | Created timestamp |

## Table: coupons

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Coupon ID |
| code | text | — | NOT NULL, UNIQUE | Coupon code string |
| description | text | — | — | coupon description |
| discount\_type | text | ‘Percent’::text | — | flat / percent |
| discount\_value | int4 | — | NOT NULL | Discount amount |
| min\_order\_value | int4 | — | — | Minimum subtotal required |
| max\_discount | int4 | — | — | Maximum discountable value |
| start\_date | date | — | — | Start date of coupon |
| end\_date | date | — | — | Expiration date |
| is\_active | boolean | true | — | Active status |
| usage\_limit | int4 | — | — | Number of coupons limit |
| usage\_per\_user | int4 | 1 | — | Limit of a coupon for a user |
| usage\_count | int4 | 0 | — | Number of universal usage for a coupon. |
| created\_at | timestamptz | now() | — | Created timestamp |

## Table: coupons\_applied

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Record ID |
| order\_id | uuid | — | FOREIGN KEY → orders.id | Which order used it |
| coupon\_id | uuid | — | FOREIGN KEY → coupons.id | Which coupon applied |
| discount\_amount | int4 | — | — | Amount discounted (₹) |
| created\_at | timestamptz | now() | — | When applied |

## Table: reviews

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Review ID |
| product\_id | uuid | — | FOREIGN KEY → products.id | Product reviewed |
| user\_id | uuid | — | FOREIGN KEY → users.id | Reviewer |
| rating | int2 | — | NOT NULL | Rating (1–5) |
| comment | text | — | — | Optional feedback |
| created\_at | timestamptz | now() | — | Timestamp |

## Table: wishlist

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Wishlist item ID |
| user\_id | uuid | — | FOREIGN KEY → users.id | Owner |
| product\_id | uuid | — | FOREIGN KEY → products.id | Wishlisted product |
| created\_at | timestamptz | now() | — | Added date |

## Table: carts

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | One Cart ID per user |
| user\_id | uuid | — | FOREIGN KEY → users.id | Owner |
| session\_id | text | — | — | Guest user session id |
| expires\_at | timestampz | now() + 7 days | — | Autoclear guest carts |
| created\_at | timestamptz | now() | — | Added timestamp |
| updated\_at | timestamptz | now() | — | Added timestamp |

## Table: cart\_items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Cart item ID |
| user\_id | uuid | — | FOREIGN KEY → users.id | Owner |
| product\_variant\_id | uuid | — | FOREIGN KEY → product\_variants.id | Product in cart |
| quantity | int4 | 1 | NOT NULL | Quantity |
| created\_at | timestamptz | now() | — | Added timestamp |
| bundle\_origin | text | — | — | Optional: ‘brand\_bundle’, ‘custom\_bundle’, or NULL |
| bundle\_id | uuid | — | — | Optional: links to bundles.id, custom\_bundles.id, or bundle\_user\_public.id |

## Table: bundles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Unique bundle ID |
| title | text | — | NOT NULL | Bundle name (e.g., “Birthday Bloom Box”) |
| description | text | — | — | Short description |
| price | int4 | — | NOT NULL | Total price for bundle |
| img\_url | text | — | — | Display image (Cloudinary URL) |
| is\_active | bool | true | — | Visibility toggle |
| created\_at | timestamptz | now() | — | Created timestamp |
| updated\_at | timestamptz | now() | — | Updated timestamp |

## Table: bundle\_items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Record ID |
| bundle\_id | uuid | — | FK → bundles.id ON DELETE CASCADE | Parent bundle |
| product\_id | uuid | — | FK → products.id | Base product |
| product\_variant\_id | uuid | — | FK → product\_variants.id | Optional variant |
| quantity | int4 | 1 | — | Quantity of product |
| created\_at | timestamptz | now() | — | Timestamp |
| CHECK | — | — | — | (product\_id IS NOT NULL OR product\_variant\_id IS NOT NULL) |

## Table: bundles\_custom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | User’s custom bundle ID |
| user\_id | uuid | — | FK → users.id | Bundle owner |
| order\_id | uuid | — | FK → orders.id | Linked order after purchase |
| title | text | — | — | Optional name (e.g., “My Pink Surprise Box”) |
| total\_price | int4 | — | — | Bundle total at checkout |
| is\_published | bool | false | — | Whether user made it public |
| created\_at | timestamptz | now() | — | Created timestamp |

## Table: bundle\_custom\_items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Record ID |
| custom\_bundle\_id | uuid | — | FK → custom\_bundles.id ON DELETE CASCADE | Parent bundle |
| product\_id | uuid | — | FK → products.id | Base product |
| product\_variant\_id | uuid | — | FK → product\_variants.id | Optional variant |
| quantity | int4 | 1 | — | Quantity of product |
| created\_at | timestamptz | now() | — | Timestamp |
| CHECK | — | — | — | (product\_id IS NOT NULL OR product\_variant\_id IS NOT NULL) |

## Table: bundle\_user\_public

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Public bundle ID |
| custom\_bundle\_id | uuid | — | FK → custom\_bundles.id | Source bundle |
| user\_id | uuid | — | FK → users.id | Creator (public sharer) |
| title | text | — | NOT NULL | Public name (e.g., “Kajal’s Glam Box”) |
| username | text | — | — | Display name of creator |
| description | text | — | — | Optional description/message |
| total\_price | int4 | — | — | Price snapshot |
| upvote\_count | int4 | 0 | — | Cached upvote counter |
| img\_url | text | — | — | Thumbnail / representative image |
| created\_at | timestamptz | now() | — | Created timestamp |

## Table: bundle\_user\_items\_public

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Record ID |
| user\_bundle\_id | uuid | — | FK → bundle\_user\_public.id ON DELETE CASCADE | Public parent bundle |
| product\_id | uuid | — | FK → products.id | Base product |
| product\_variant\_id | uuid | — | FK → product\_variants.id | Optional variant |
| quantity | int4 | 1 | — | Quantity of product |
| created\_at | timestamptz | now() | — | Timestamp |
| CHECK | — | — | — | (product\_id IS NOT NULL OR product\_variant\_id IS NOT NULL) |

## Table: bundle\_user\_upvotes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Constraints** | **Notes** |
| id | uuid | gen\_random\_uuid() | Primary key | Record ID |
| user\_id | uuid | — | FK → users.id | Who liked |
| user\_bundle\_id | uuid | — | FK → bundle\_user\_public.id | Which public bundle |
| created\_at | timestamptz | now() | — | Timestamp |
| UNIQUE(user\_id, user\_bundle\_id) | — | — | — | Prevent duplicate upvotes |