### <u>Database Design</u>

After modeling our database onto an EERD, we yield the following tables.

# External\_Stakeholders Table

stakeholder id	email	address	contact_number
1	Johndoe@gmail.com	1 Skip Street, Pretoria, 0081	0831234567
2	Info@ramcouriers.co.za	27 Wrench Rd, Kempton Park, 1600	0104948223
3	Inventory@mdesigns.co.za	355 Bullhorn St, Johannesburg, 2215	0117375841
4	Info@bexexpress.co.za	120 Loper Ave, Kempton Park, 1619	0861239397
5	Suzymashaba@gmail.com	45 Harpoon Lane, Midrand, 0157	0723214321

### **Customer Table**

<u>customer id</u>	stakeholder_id	name	surname	password	card_no	exp_date
1	1	John	Doe	Password123!	4480123456789000	03/29
2	5	Suzy	Mashaba	Secret45###	NULL	NULL

#### Juristic Table

jurist_id	stakeholder_id	tranding_name	freight_rate	account_no	branch_code
1	2	RAM Couriers	R73	62000001452	250655
2	3	Marriage Designs	R90	401475684	632005
3	4	BEX Express	R59	1023657342	198765

#### Courier Table

<u>courier id</u>	jurist_id
1	1
2	3

# Supplier Table

supplier_id	jurist_id
1	2

### **Collection Table**

<u>coll_id</u>	customer_id	timestamp
1	1	2024-01-24 14:57:15
2	2	2024-02-14 09:34:00

### Wishlist Table

customer id	<u>timestamp</u>	prod_id
1	2024-01-24 14:57:15	43

#### Cart Table

customer id	<u>timestamp</u>	prod_id
2	2024-02-14 09:34:00	14

Once a customer clicks the checkout button, all the records in the cart table will be converted to an invoice description and corresponding total. The records of the cart table will be deleted as the cart is emptied. By contrast, a wish list's contents are emptied when the customer chooses to send them to the cart or merely deletes them.

Whenever the customer clicks the add to wish list or add to cart button, a time stamp and product id are recorded in the respective specialized table, as well as the generalization table. Should they have not added anything to either table, there will be no records with their customer id and the site will report as such.

#### **Product Table**

prod_id	prod_name	prod_desc	selling_price	sizes	prod_img	supplier_id
14	Whispering Petals Bridal Gown	The "Whispering Petals Bridal Gown" is a timeless romance in fabric form. With luxurious satin, intricate lace, and soft tulle, it exudes grace and elegance. Delicate lace appliqués adorn the back, while fabric flowers and shimmering beadwork add subtle sparkle. Ideal for brides seeking enchanting sophistication on their special day.	R3499.00	25, 25, 26, 27, 27, 28, 29, 30,	Whispering_Pet als_Bridal_Gow n.png	1
43	Elegant Affair Groom's Ensemble	The "Elegant Affair Groom's Ensemble" is sophistication at its peak. Tailored from premium wool blend, it boasts a classic silhouette with subtle details for added elegance. Perfect for any wedding, it ensures the groom looks impeccable.	R2950.00	34, 44, 44, 46, 46, 46, 47, 48, 48, 50	Elegant_Affair_ Groom's_Ense mble.png	1
12	Dainty Charm Ring Bearer Ensemble	The "Dainty Charm Ring Bearer Ensemble" is a sweet blend of elegance and innocence. Featuring a crisp white shirt paired with tailored shorts or trousers, adorned with delicate details like lace accents or satin bows. Finished with coordinating accessories, this ensemble ensures the little one steals hearts down the aisle.	R945.00	6, 6, 7, 8, 8, 9, 10, 11, 12	Dainty_Charm_ Ring_Bearer_En semble.png	1
11	Cherub Chic Ring Bearer Attire	"Cherub Chic Ring Bearer Attire" steals hearts with its timeless elegance. A crisp white shirt paired with tailored shorts or	R1025.00	6, 6, 7, 8, 8, 9, 10, 11, 12	Cherub_Chic_R ing_Bearer_Atti re.png	1

trousers, adorned with subtle accents, adds whimsy to the		
wedding. Finished with		
coordinating accessories, the		
ensemble ensures the ring bearer looks irresistibly adorable.		

### We can normalize the Product table by ungrouping the sizes attribute as follows

prod_id	prod_name	prod_desc	selling_price	sizes	prod_img	supplier_id
14	Whispering	The "Whispering Petals Bridal	R3499.00	25	Whispering	1
14	Whispering	The "Whispering Petals Bridal	R3499.00	25	Whispering	1
14	Whispering	The "Whispering Petals Bridal	R3499.00	26	Whispering	1

Thereafter, we can move the attributes that were dependent on the gender and age by which a customer would want to shop for products to their own specialization tables, to further normalize the product table.

#### **Product Table**

prod_id	selling_price	sizes	supplier_id
14	R3499.00	25	1
14	R3499.00	25	1
14	R3499.00	26	1
	•••	•••	

#### Womens Table

womens_id	prod_id	quantity	prod_name	prod_desc	prod_img
1	14	8	Whispering	The "Whispering Petals Bridal	Whispering

## Mens Table

mens id	prod_id	quantity	prod_name	prod_desc	prod_img
1	43	10	Elegant	The "Elegant Affair Groom's	Elegant

#### Girl Table

girls id	prod_id	quantity	prod_name	prod_desc	prod_img
1	12	9	Elegant	The "Dainty Charm Ring Bear	Dainty

### Boys Table

girls id	prod_id	quantity	prod_name	prod_desc	prod_img
1	12	9	Cherub	"Cherub Chic Ring Bearer Att	Cherub

### Workitem Table

workitem id	date
2q4q38294q	2024-03-01

### Order Table

<u>order id</u>	workitem_id	order_id	order_desc	customer_id	order_total
10001	2q4q38294q	2024-03-01	1 Cherub Chic Ring Bearer Attire	1	R1025.00

### Return Table

<u>return id</u>	workitem_id	order_id

# Restocking Table

<u>restock_id</u>	workitem_id