

				Analysis	
Table	Attributes	Domain Constraints	Check Contraints	Relation	Grant_Access (Customer/Administrator/SuperUser)
products	id	Raw(16)	PRIMARY KEY	products has many-to-many relation with cart product has many-to-many relation with orders products has many-to-many relation with suppliers product has many-to-one relation with address product has many-to-one with product_category product has one-to-many with review	Customer - SELECT Adminstrator - SELECT, INSERT, UPDATE, DELETE, CREATE, ALTER, DROP, EXECUTE Super User - ALL PRIVILEGES
	name	VARCHAR2(50)	dont allow nulls		
	description	VARCHAR2(200)	dont allow nulls		
	price	INTEGER	dont allow nulls		
	quantity	INTEGER	dont allow nulls		
	discount	INTEGER	NA		
	brandname	VARCHAR2(20)	dont allow nulls		
	address_id	Raw(16)	no null values, FOREIGN KEY (address_id) REFERENCES address(id)		
product_category_id	Raw(16)	dont allow nulls, FOREIGN KEY (product_category_id) REFERENCES product_category(id)			
customer	id	Raw(16)	PRIMARY KEY	customer has one-to-one relation with cart customer has many-to-many relation with address customer has many-to-many relation with giftvoucher customer has one-to-many relation with orders customer has one-to-many relation with reviews customer has many-to-many relation with delivery_partner	Customer - SELECT, INSERT,UPDATE Adminstrator - SELECT, INSERT, UPDATE, DELETE, CREATE, ALTER, DROP, EXECUTE Super User - ALL PRIVILEGES
	first_name	VARCHAR2(20)	dont allow nulls		
	last_name	VARCHAR2(20)	dont allow nulls		
	phone_no	VARCHAR2(20)	dont allow nulls, UNIQUE, CHECK (REGEXP_LIKE (phone, '\ (d{3})\nd{3}-d {4}\$'))		
	email_id	VARCHAR2(255)	no null values, UNIQUE, CHECK (REGEXP_LIKE (email, '[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}\$'))		
	dob	DATE	dont allow nulls		
	type - regular/premium/gold/vip	VARCHAR2(20)	dont allow nulls		
cart	id	Raw(16)	PRIMARY KEY	cart has one-to-one relation with customer cart has many-to-many relation with products	Customer - SELECT, INSERT, UPDATE, DELETE Administrator - SELECT, UPDATE, DELETE Super User - ALL PRIVILEGES
	customer_id	Raw(16)	dont allow nulls, FOREIGN KEY (customer_id) REFERENCES customer(id)		
	quantity	INTEGER	dont allow nulls		
orders	id	Raw(16)	PRIMARY KEY	orders has many-to-one relation with customer orders has many-to-many relation with products order has one-to-one relation with transaction_summary orders has many-to-one with address order has one-to-many with review order has one-to-one delivery_partner	Customer - SELECT, INSERT, UPDATE, DELETE Administrator - SELECT, INSERT, UPDATE, DELETE, ALTER, DROP Super User - ALL PRIVILEGES
	status	VARCHAR2(20)	dont allow nulls		
	order_date	DATE	dont allow nulls		
	address_id	Raw(16)	dont allow nulls, FOREIGN KEY (address_id) REFERENCES address(id)		
	customer_id	Raw(16)	dont allow nulls, FOREIGN KEY (customer_id) REFERENCES customer(id)		
transaction_summary	id	Raw(16)	PRIMARY KEY	transaction_summary has one-to-one relation with orders	Customer - SELECT Administrator - SELECT Super User - ALL PRIVILEGES
	total_amount_paid	INTEGER	dont allow nulls		
	payment_type - upi/wallets/creditcard/debitcard/net banking/emi/cod	VARCHAR2(20)	dont allow nulls		
	date_of_payment	DATE	dont allow nulls		

Analysis					
Table	Attributes	Domain Constraints	Check Contraints	Relation	Grant_Access (Customer/Administrator/SuperUser)
	order_id	Raw(16)	dont allow nulls FOREIGN KEY (order_id) REFERENCES orders(id)		
supplier	id	Raw(16)	PRIMARY KEY	suppliers has many-to-many relation with products supplier has one-to-one relation with address	Customer - NA Administrator - SELECT, INSERT, UPDATE, DELETE Super User - ALL PRIVILEGES
	name	VARCHAR2(50)	dont allow nulls		
	phone_no	VARCHAR2(20)	dont allow nulls, UNIQUE, CHECK (REGEXP_LIKE (phone, '^(\d{3})\d{3}-\d{4}\$'))		
	email	VARCHAR2(255)	dont allow nulls, UNIQUE, CHECK (REGEXP_LIKE (email, '^([A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}\$)'))		
	rating	INTEGER	NA		
	address_id	Raw(16)	dont allow nulls, FOREIGN KEY (address_id) REFERENCES address(id)		
address	id	Raw(16)	PRIMARY KEY	address has many-to-many relation with customer address has one-to-many relation with product address has one-to-many with orders address has one-to-one relation with supplier	Customer - SELECT, INSERT, UPDATE, DELETE Administrator - SELECT, INSERT, UPDATE, DELETE Super User - ALL PRIVILEGES
	flat_no	NUMBER	dont allow nulls		
	street	VARCHAR2(50)	dont allow nulls		
	city	VARCHAR2(50)	dont allow nulls		
	state	VARCHAR2(50)	dont allow nulls		
	country	VARCHAR2(50)	dont allow nulls		
	zip_code	VARCHAR(10)	dont allow nulls		
product_category	id	Raw(16)	PRIMARY KEY	product_category has one-to-many with product	Customer - SELECT Administrator - SELECT, INSERT, UPDATE, DELETE Super User - ALL PRIVILEGES
	section - clothing/ footwear/ accessories /electronics	VARCHAR2(20)	dont allow nulls		
	audience_segment - men/women/kids/girls/boys	VARCHAR2(20)	dont allow nulls		
reviews	id	Raw(16)	PRIMARY KEY	reviews has many-to-one relation with customer review has many-to-one with product review has many-to-one with order	Customer - SELECT, INSERT, UPDATE, DELETE Administrator - SELECT, DELETE Super User - ALL PRIVILEGES
	rating	NUMBER	NA		
	comments	VARCHAR2(150)	NA		
	product_id	Raw(16)	FOREIGN KEY (product_id) REFERENCES products(id)		
	order_id	Raw(16)	FOREIGN KEY (order_id) REFERENCES orders(id)		
	customer_id	Raw(16)	FOREIGN KEY (customer_id) REFERENCES customer(id)		
gift_vouchers	id	Raw(16)	PRIMARY KEY	gift_voucher has many-to-many relation with customer	Customer - SELECT Administrator - SELECT, INSERT, UPDATE, DELETE Super User - ALL PRIVILEGES
	name	VARCHAR2(50)	NA		
	number	NUMBER	NA		
	amount	INTEGER	NA		
	expiry_date	DATE	NA		
	id	Raw(16)	PRIMARY KEY		
	name	VARCHAR2(50)	dont allow nulls		

Analysis					
Table	Attributes	Domain Constraints	Check Constraints	Relation	Grant_Access (Customer/Administrator/SuperUser)
delivery_partner	phone_no	VARCHAR2(20)	dont allow nulls, CHECK (REGEXP_LIKE (phone, '^ \d{3}\d{3}-\d {4}\$'))	delivery_partner has many-to-many relation with customer delivery_partner has one-to-one orders	Customer - NA Administrator - SELECT, INSERT, UPDATE, DELETE Super User - ALL PRIVILEGES
	email	VARCHAR2(255)	dont allow nulls, CHECK (REGEXP_LIKE (email, '^ [A-Za-z0-9. _%+ -] +@[A-Za-z0-9. -] + \. [A-Za-z] {2,}\$'))		
	order_id	Raw(16)	dont allow nulls FOREIGN KEY (order_id) REFERENCES orders(id)		
customer_address (relation table)	customer_id	Raw(16)	PRIMARY KEY dont allow nulls, FOREIGN KEY (customer_id) REFERENCES customer(id)	NA	NA
	address_id	Raw(16)	PRIMARY KEY dont allow nulls, FOREIGN KEY (address_id) REFERENCES address(id)		
	default_address - yes/no	BOOLEAN	dont allow nulls		
customer_gift_voucher (relation table)	customer_id	Raw(16)	PRIMARY KEY dont allow nulls, FOREIGN KEY (customer_id) REFERENCES customer(id)	NA	
	gift_voucher_id	Raw(16)	PRIMARY KEY		
	count	NUMBER	dont allow nulls		
customer_delivery_partner (relation table)	customer_id	Raw(16)	PRIMARY KEY dont allow nulls, FOREIGN KEY (customer_id) REFERENCES customer(id)	NA	NA
	delivery_partner_id	Raw(16)	PRIMARY KEY dont allow nulls, FOREIGN KEY (delivery_partner_id) REFERENCES delivery_partner(id)		
products_cart (relation table)	product_id	Raw(16)	PRIMARY KEY FOREIGN KEY (product_id) REFERENCES products(id)	NA	NA
	cart_id	Raw(16)	PRIMARY KEY		
	count	NUMBER	dont allow nulls		
orders_products (relation table)	orders_id	Raw(16)	PRIMARY KEY dont allow nulls FOREIGN KEY (order_id) REFERENCES orders(id)	NA	NA
	products_id	Raw(16)	PRIMARY KEY FOREIGN KEY (product_id) REFERENCES products(id)		
	quantity	INTEGER	dont allow nulls		
products_suppliers	product_id	Raw(16)	PRIMARY KEY FOREIGN KEY (product_id) REFERENCES products(id)		

Analysis					
Table products_suppliers (relation table)	Attributes	Domain Constraints	Check Constraints	Relation	Grant_Access (Customer/Administrator/SuperUser)
	supplier_id	Raw(16)	PRIMARY KEY FOREIGN KEY (supplier_id) REFERENCES supplier(id)	NA	NA
	quantity	INTEGER	dont allow nulls		