

IM2675 – Database Management SystemsGroup Assignment

Inventory Management System

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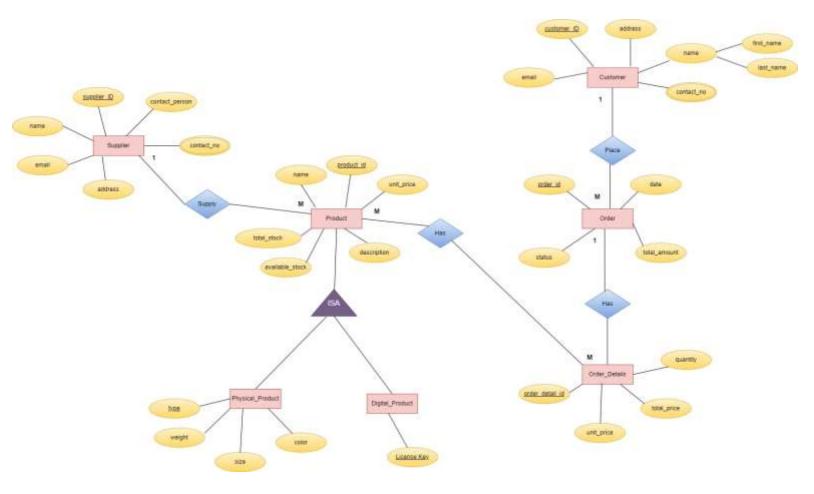
1. Introduction

We are entrusted with creating an Inventory Management System (IMS) for a retail company in this made-up scenario. The system will monitor a number of things, such as suppliers, orders, inventory levels, and product details. In order to minimize excess inventory and guarantee that the retail business has the right amount of inventory on hand to fulfill customer demand, the inventory management system (IMS) was developed.

One of the main components of the IMS would be a centralized database that would hold all pertinent data, including product names, descriptions, available quantities, reorder points, supplier information, and previous order histories. It would also include features for managing supplier connections, tracking shipments, creating purchase orders when inventory levels fall below a predetermined threshold, and updating inventory levels in real-time as transactions take place.

The retail company can increase order fulfillment procedures, decrease stockouts, prevent overstocking, improve inventory accuracy, and ultimately optimize its supply chain management for increased profitability and customer happiness by putting in place an effective IMS.

2. ER Diagram



ER Diagram Link = https://drive.google.com/file/d/1jou6qGEWUIAnkGkGTz568c8rswY3fmkA/view?usp=drive_link

3. Relational Schema

3.1 Map Entities

- a. Regular Entities
 - supplier(supplie_id, name, contact_person, email, address)
 - physical_product(<u>product_id,type_</u>, name, description, total_stock, available_stock, color, weight, size, supplier_id)
 - digital_product(<u>product_id</u>, <u>lisenskey</u>, name, description, total_stock, available_stock, supplier_id)
 - customer(customer_id, first_name, last_name,email,address)
 - order(order_id, date, status, total_amount, available_stock, customer_id)
 - order_details(order_detail_id, quantity,unit_price,total_price,order_id)

b. Multivalued attributes

- supplier_contract(supplier_id, contact_no)
- customer_contract(customer_id, contact_no)

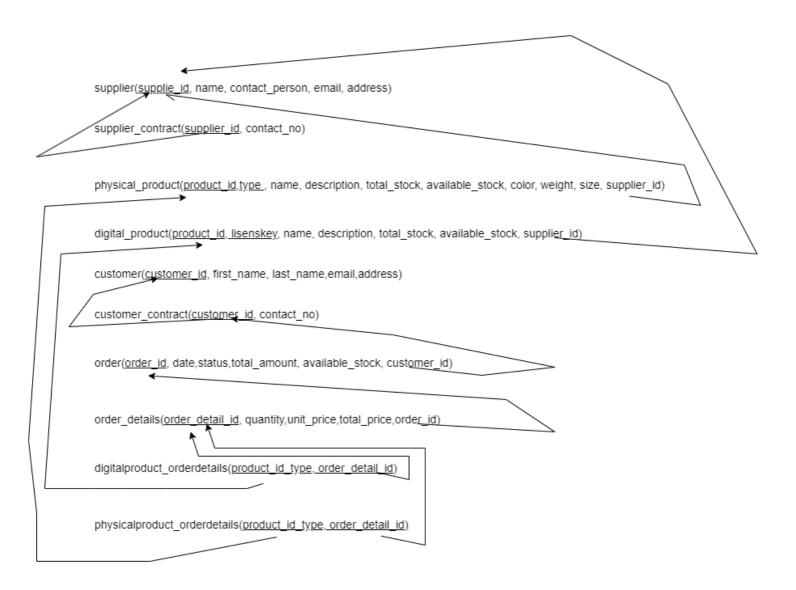
3.2 Map relationships

- a. 1: M
 - physical_product(<u>product_id</u>,type_, name, description, total_stock, available_stock, color, weight, size, supplier_id)
 - digital_product(<u>product_id, lisenskey</u>, name, description, total_stock, available_stock, supplier_id)
 - order(order_id, date, status, total_amount, available_stock, customer_id)
 - order_details(order_detail_id, quantity,unit_price,total_price,order_id)

b. M:N

- digitalproduct_orderdetails(<u>product_id_type</u>, <u>order_detail_id</u>)
- physicalproduct_orderdetails(product_id_type, order_detail_id)

3.3 Final Schema



4. Queries in SQL - Part 1– Create Tables

```
01).
      CREATE TABLE supplier (
        supplier_id VARCHAR(10) PRIMARY KEY,
        name VARCHAR(255),
        contact_person VARCHAR(100),
        email VARCHAR(100),
        address VARCHAR(255)
      );
02).
CREATE TABLE supplier_contact (
  supplier_id VARCHAR(10),
  contact no VARCHAR(20),
  CONSTRAINT pk_suppliercontact PRIMARY KEY (supplier_id, contact_no),
  CONSTRAINT fk_supplier_contact_supplier FOREIGN KEY (supplier_id) REFERENCES
                                                                                    supplier
(supplier_id)
);
03).
CREATE TABLE physical_product (
  product_id VARCHAR(10),
  type VARCHAR(255),
  name VARCHAR(255),
  description VARCHAR(255),
  unit_price DECIMAL(10, 2),
  available_stock INT,
  total stock INT,
  supplier_id VARCHAR(10),
  size VARCHAR(50),
  weight DECIMAL(10, 2),
  color VARCHAR(50),
  CONSTRAINT pk_physicalproduct PRIMARY KEY (product_id, type),
  FOREIGN KEY (supplier_id) REFERENCES supplier(supplier_id)
);
```

```
04).
CREATE TABLE digital_product (
  product id VARCHAR(10),
  licenskey VARCHAR(255),
  name VARCHAR(255),
  description VARCHAR(255),
  unit_price DECIMAL(10, 2),
  available_stock INT,
  total stock INT,
  supplier_id VARCHAR(10),
  CONSTRAINT pk_digitalproduct PRIMARY KEY (product_id, licenskey),
  FOREIGN KEY (supplier_id) REFERENCES supplier(supplier_id)
);
05).
CREATE TABLE customer (
  customer_id VARCHAR(10) PRIMARY KEY,
  first_name VARCHAR(255),
  last_name VARCHAR(255),
  email VARCHAR(100),
  address VARCHAR(255)
);
06).
CREATE TABLE customer_contact (
  customer_id VARCHAR(10),
  contact_no VARCHAR(20),
  CONSTRAINT pk_cuscontact PRIMARY KEY (customer_id, contact_no),
  CONSTRAINT fk_customer_contact_customer FOREIGN KEY (customer_id) REFERENCES customer
(customer_id)
);
```

```
07).
CREATE TABLE `order` (
  order id VARCHAR(10) PRIMARY KEY,
  `date` DATE,
  customer_id VARCHAR(10),
  total_amount DECIMAL(10, 2),
  status VARCHAR(20),
  FOREIGN KEY (customer_id) REFERENCES customer(customer_id)
);
08).
CREATE TABLE order details (
  order_detail_id VARCHAR(10) PRIMARY KEY,
  quantity INT,
  unit_price DECIMAL(10, 2),
  total price DECIMAL(10, 2),
  FOREIGN KEY (order_id) REFERENCES `order`(order_id)
);
09).
CREATE TABLE physical product_order details (
  order_detail_id VARCHAR(10),
  product_id VARCHAR(10),
  type VARCHAR(225),
  CONSTRAINT pk_guest PRIMARY KEY (order_detail_id, product_id, type),
  FOREIGN KEY (type) REFERENCES physical_product (type),
  FOREIGN KEY (order_detail_id) REFERENCES order_details (order_detail_id),
  FOREIGN KEY (product_id) REFERENCES physical_product (product_id)
);
```

```
10).
```

```
CREATE TABLE digitalproduct_orderdetails (
    order_detail_id VARCHAR(10),
    product_id VARCHAR(10),
    licenskey VARCHAR(225),

CONSTRAINT pk_guest PRIMARY KEY (order_detail_id, product_id, licenskey),
    FOREIGN KEY (licenskey) REFERENCES digital_product (licenskey),
    FOREIGN KEY (order_detail_id) REFERENCES order_details (order_detail_id),
    FOREIGN KEY (product_id) REFERENCES physical_product (product_id)
);
```

5. Queries in SQL - Part 2 – Insert Value

01) Inserting data into supplier table

```
INSERT INTO supplier (supplier_id, name, contact_person, email, address)
VALUES
('Sup001', 'John Abrhum', 'John Doe', 'john.doe@gamil.com', '123 Main Street'),
('Sup002', 'Nikesh Nithil', 'Jane Smith', 'jane.smith@gamil.com', '456 Elm Street'),
('Sup003', 'Kamal Anirudh', 'Michael Johnson', 'michael.johnson@gamil.com', '789 Oak Street'),
('Sup004', 'Patrick Jane', 'Emily Brown', 'emily.brown@gamil.com', '101 Pine Street'),
('Sup005', 'Jane hightower', 'David Wilson', 'david.wilson@gamil.com', '202 Maple Street'),
('Sup006', 'Brad Smith', 'Sarah Lee', 'sarah.lee@gamil.com', '303 Cedar Street'),
('Sup007', 'Kevin Fernando', 'Kevin Miller', 'kevin.miller@gamil.com', '404 Birch Street'),
('Sup008', 'Adam Martinez', 'Amanda Davis', 'amanda.davis@gamil.com', '505 Walnut Street'),
('Sup009', 'Rebeca Silvester', 'Robert Taylor', 'robert.taylor@gamil.com', '606 Ash Street'),
('Sup010', 'Anne Sebestian', 'Jessica Martinez', 'jessica.martinez@gamil.com', '707 Oakwood Avenue');
```

02). Inserting data into supplier_contact table

```
INSERT INTO supplier_contact (supplier_id, contact_number) VALUES ('Sup001', '123-456-7890'), ('Sup002', '234-567-8901'), ('Sup003', '345-678-9012'), ('Sup004', '456-789-0123'), ('Sup005', '567-890-1234'), ('Sup006', '678-901-2345'), ('Sup007', '789-012-3456'), ('Sup008', '890-123-4567'), ('Sup009', '901-234-5678'), ('Sup010', '012-345-6789');
```

03). Inserting data into physical_product table

INSERT INTO physical_product (product_id, type, name, description, unit_price, available_stock, total_stock, supplier_id, size, weight, color)

```
VALUES
```

('Phy001', 'Electronics', 'Laptop', 'High-performance laptop', 999.99, 50, 100, 'Sup001', '15 inch', 2.5, 'Black'), ('Phy002', 'Electronics', 'Smartphone', 'Latest smartphone model', 699.99, 100, 150, 'Sup002', '6.5 inch', 0.5, 'Silver'),

('Phy003', 'Clothing', 'T-shirt', 'Cotton t-shirt', 19.99, 200, 300, 'Sup003', 'Large', 0.3, 'White'),

('Phy004', 'Clothing', 'Jeans', 'Denim jeans', 39.99, 150, 200, 'Sup004', '32W x 34L', 0.7, 'Blue'),

('Phy005', 'Books', 'Novel', 'Best-selling novel', 14.99, 300, 400, 'Sup005', 'N/A', 0.8, 'Various'),

('Phy006', 'Electronics', 'Tablet', 'High-resolution tablet', 299.99, 80, 120, 'Sup006', '10 inch', 1.0, 'Space Gray'),

('Phy007', 'Home Appliances', 'Microwave', 'Countertop microwave', 129.99, 50, 80, 'Sup007', 'Medium', 15.0, 'White'),

('Phy008', 'Home Appliances', 'Coffee Maker', 'Automatic coffee maker', 79.99, 70, 100, 'Sup008', 'N/A', 5.0,

```
'Black'), ('Phy009', 'Toys', 'Action Figure', 'Popular action figure', 24.99, 120, 180, 'Sup009', 'N/A', 0.2, 'Various'), ('Phy010', 'Toys', 'Board Game', 'Classic board game', 29.99, 100, 150, 'Sup010', 'N/A', 1.5, 'Various');
```

04). Inserting data into digital product table

```
INSERT INTO digital_product (product_id, licenskey, name, description, unit_price, available_stock, total_stock, supplier_id)
VALUES
('Dig001', 'ABC123', 'Software', 'Digital software product', 49.99, 200, 300, 'Sup001'),
('Dig002', 'DEF456', 'E-book', 'Digital book in PDF format', 9.99, 500, 600, 'Sup002'),
('Dig003', 'GHI789', 'Online Course', 'Digital course with video lectures', 79.99, 100, 150, 'Sup003'),
('Dig004', 'JKL012', 'Subscription', 'Digital subscription service', 19.99, 300, 400, 'Sup004'),
('Dig005', 'MNO345', 'Music Album', 'Digital music album in MP3 format', 14.99, 150, 200, 'Sup005'),
('Dig006', 'PQR678', 'Movie', 'Digital movie download', 9.99, 200, 250, 'Sup006'),
('Dig007', 'STU901', 'Game', 'Digital video game', 39.99, 100, 150, 'Sup007'),
('Dig008', 'VWX234', 'Audio Book', 'Digital audio book', 29.99, 80, 120, 'Sup008'),
('Dig009', 'YZA567', 'Software Tool', 'Digital software tool', 69.99, 150, 200, 'Sup009'),
('Dig010', 'BCD890', 'E-magazine', 'Digital magazine subscription', 4.99, 300, 400, 'Sup010');
```

05). Inserting data into customer table

```
INSERT INTO customer (customer_id, first_name, last_name, email, address) VALUES ('Cus001', 'Alice', 'Johnson', 'alice.johnson@example.com', '123 Pine Street'), ('Cus002', 'Bob', 'Smith', 'bob.smith@example.com', '456 Oak Street'), ('Cus003', 'Charlie', 'Williams', 'charlie.williams@example.com', '789 Maple Street'), ('Cus004', 'David', 'Brown', 'david.brown@example.com', '101 Elm Street'), ('Cus005', 'Emma', 'Jones', 'emma.jones@example.com', '202 Cedar Street'), ('Cus006', 'Frank', 'Taylor', 'frank.taylor@example.com', '303 Birch Street'), ('Cus007', 'Grace', 'Anderson', 'grace.anderson@example.com', '404 Walnut Street'), ('Cus008', 'Henry', 'Martinez', 'henry.martinez@example.com', '505 Ash Street'), ('Cus009', 'Ivy', 'Garcia', 'ivy.garcia@example.com', '606 Oakwood Avenue'), ('Cus010', 'Jack', 'Lopez', 'jack.lopez@example.com', '707 Elmwood Drive');
```

06). Inserting data into customer_contact table

```
INSERT INTO customer_contact (customer_id, contact_number) VALUES ('Cus001', '123-456-7890'), ('Cus002', '234-567-8901'), ('Cus003', '345-678-9012'), ('Cus004', '456-789-0123'), ('Cus005', '567-890-1234'), ('Cus006', '678-901-2345'),
```

```
('Cus007', '789-012-3456'),
('Cus008', '890-123-4567'),
('Cus009', '901-234-5678'),
('Cus010', '012-345-6789');
```

07). Inserting data into order_table table

```
INSERT INTO order (order_id, date, customer_id, total_amount, status) VALUES
('Ord001', '2024-04-01', 'Cus001', 299.99, 'Shipped'),
('Ord002', '2024-04-02', 'Cus002', 199.99, 'Delivered'),
('Ord003', '2024-04-03', 'Cus003', 399.99, 'Pending'),
('Ord004', '2024-04-04', 'Cus004', 599.99, 'Shipped'),
('Ord005', '2024-04-05', 'Cus005', 499.99, 'Delivered'),
('Ord006', '2024-04-06', 'Cus006', 99.99, 'Shipped'),
('Ord007', '2024-04-07', 'Cus007', 199.99, 'Delivered'),
('Ord008', '2024-04-08', 'Cus008', 149.99, 'Pending'),
('Ord009', '2024-04-09', 'Cus009', 799.99, 'Shipped'),
('Ord010', '2024-04-10', 'Cus010', 349.99, 'Delivered');
```

08). Inserting data into order details table

```
INSERT INTO order_details (order_detail_id, order_id, quantity, unit_price, total_price) VALUES ('Od001', 'Ord001', 1, 999.99, 999.99), ('Od002', 'Ord002', 2, 699.99, 1399.98), ('Od003', 'Ord003', 3, 19.99, 59.97), ('Od004', 'Ord004', 1, 39.99, 39.99), ('Od005', 'Ord005', 2, 14.99, 29.98), ('Od006', 'Ord006', 1, 299.99, 299.99), ('Od007', 'Ord007', 1, 129.99, 129.99), ('Od008', 'Ord008', 2, 79.99, 159.98), ('Od009', 'Ord009', 3, 24.99, 74.97), ('Od010', 'Ord010', 1, 29.99, 29.99);
```

09). Inserting data into physical product_order details table

```
INSERT INTO physicalproduct_orderdetails (order_detail_id, product_id, type) VALUES ('Od001', 'Phy001', 'Electronics'), ('Od002', 'Phy002', 'Electronics'), ('Od003', 'Phy003', 'Clothing'), ('Od004', 'Phy004', 'Clothing'), ('Od005', 'Phy005', 'Books'), ('Od006', 'Phy006', 'Electronics'), ('Od007', 'Phy007', 'Home Appliances'), ('Od008', 'Phy008', 'Home Appliances'), ('Od009', 'Phy009', 'Toys'), ('Od010', 'Phy010', 'Toys');
```

10). Inserting data into digitalproduct_orderdetails table

```
INSERT INTO digitalproduct_orderdetails (order_detail_id, product_id, licenskey) VALUES ('Od001', 'Dig001', 'ABC123'), ('Od002', 'Dig002', 'DEF456'), ('Od003', 'Dig003', 'GHI789'), ('Od004', 'Dig004', 'JKL012'), ('Od005', 'Dig005', 'MNO345'), ('Od006', 'Dig006', 'PQR678'), ('Od007', 'Dig007', 'STU901'), ('Od008', 'Dig008', 'VWX234'), ('Od009', 'Dig009', 'YZA567'), ('Od010', 'Dig010', 'BCD890');
```

6. Queries in SQL – Part 3

Query	SQL Statement to Retrieve the Query
01) Retrieve all suppliers whose names	SELECT *
contain "John"	FROM supplier
(Refer : ANNEX 1)	WHERE name LIKE '%John%';
02) Retrieve all physical products with unit	SELECT *
prices between \$20 and \$50	FROM physical_product
(Refer : ANNEX 2)	WHERE unit_price BETWEEN 20 AND 50;
03) Retrieve all orders with a total amount	SELECT *
greater than \$400	FROM order
(Refer : ANNEX 3)	WHERE total_amount > 400;
04) Retrieve all customers with last names	SELECT *
starting with "J"	FROM customer
(Refer : ANNEX 4)	WHERE last_name LIKE 'J%';
05) Retrieve all digital products ordered by	SELECT *
product name in descending order	FROM digital_product
(Refer : ANNEX 5)	ORDER BY name DESC;
06) Retrieve the lowest unit price among	SELECT MIN(unit_price) AS lowest_price
physical products (Refer : ANNEX 6)	FROM physical_product;
07) Retrieve all orders placed on April 4,	SELECT *
2024	FROM order
(Refer : ANNEX 7)	WHERE date = '2024-04-04';
08) Retrieve all suppliers located on streets	SELECT *
with names starting with "M"	FROM supplier
(Refer : ANNEX 8)	WHERE address LIKE '%M%';
09) Retrieve all physical products with	SELECT *
quantities on hand greater than 100	FROM physical_product
(Refer : ANNEX 9)	WHERE quantity_on_hand > 100;
10) Retrieve all information about suppliers	SELECT MAX(total_price) AS
whose addresses contain the letter "M"	highest_total_price
anywhere in the address field. (Refer: ANNEX 10)	FROM order_details;

7. Completed Database with Sample Data

01) Sample data for supplier table

supplier_i				
d	name	contact_person	email	address
Sup001	Supplier 1	John Doe	john.doe@gamil.com	123 Main Street
Sup002	Supplier 2	Jane Smith	jane.smith@gmail.com	456 Elm Street
			michael.johnson@gamil.co	
Sup003	Supplier 3	Michael Johnson	m	789 Oak Street
Sup004	Supplier 4	Emily Brown	emily.brown@gamil.com	101 Pine Street
Sup005	Supplier 5	David Wilson	david.wilson@gmail.com	202 Maple Street
Sup006	Supplier 6	Sarah Lee	sarah.lee@gmail.com	303 Cedar Street
Sup007	Supplier 7	Kevin Miller	kevin.miller@gmail.com	404 Birch Street
Sup008	Supplier 8	Amanda Davis	amanda.davis@gamil.com	505 Walnut Street
Sup009	Supplier 9	Robert Taylor	robert.taylor@gmail.com	606 Ash Street
Sup010	Supplier 10	Jessica Martinez	jessica.martinez@gmail.com	707 Oakwood Avenue

02) Sample data for supplier_contact table

supplier_id	contact_no
Sup001	123-456-7890
Sup002	234-567-8901
Sup003	345-678-9012
Sup004	456-789-0123
Sup005	567-890-1234
Sup006	678-901-2345
Sup007	789-012-3456
Sup008	890-123-4567
Sup009	901-234-5678
Sup010	012-345-6789

03) Sample data for physical_product table

produc t id	type	name	descripti on	unit_p rice	available_ stock	total_st ock	supplie r id	size	weig ht	color
t_Ici	ty pe	пате	High-	Tiec	Stock	OCK	I_Iu	Size	110	COIOI
	.		performa					1.5		D.I
Phy001	Electro nics	Laptop	nce laptop	999.99	50	100	sup001	15 inch	2.5	Blac k
1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mes	Laptop	Latest	777.77	30	100	supoor	men	2.3	K
	Electro	Smartph	smartpho					6.5		Silve
Phy002	nics	one	ne model	699.99	100	150	sup002	inch	0.5	r
DI 000	Clothin		Cotton t-	40.00	• • • •	•	000	į.		Whit
Phy003	g Clothin	T-shirt	shirt Denim	19.99	200	300	sup003	Large 32W	0.3	e
Phy004	g	Jeans	jeans	39.99	150	200	sup004	32 w x 34L	0.7	Blue
Thyoot	_5	Jeans	Best-	37.77	130	200	вароот	ASIL	0.7	Biuc
			selling							Vari
Phy005	Books	Novel	novel	14.99	300	400	sup005	N/A	0.8	ous
	El (High-					10		Spac
Phy006	Electro nics	Tablet	resolution tablet	299.99	80	120	sup006	10 inch	1	e Gray
Thyood	ines	Tablet	Counterto	2)).))	00	120	supooo	ШСП	1	Gray
	Home		p							
	Applia	Microw	microwav					Medi		Whit
Phy007	nces	ave	e	129.99	50	80	sup007	um	15	e
	Home Applia	Coffee	Automati c coffee							Blac
Phy008	nces	Maker	maker	79.99	70	100	sup008	N/A	5	k
1119000	11000	11101101	Popular		, ,	100	5 p	- 1/2 -		
		Action	action							Vari
Phy009	Toys	Figure	figure	24.99	120	180	sup009	N/A	0.2	ous
		Doord	Classic							Voni
Phy010	Toys	Board Game	board game	29.99	100	150	sup010	N/A	1.5	Vari ous
Inyoro	10y5	June	Sume	<i>□ J</i> • <i>J J</i>	100	130	suporo	1 4/11	1.5	ous

04) Sample data for gidital_product table

product_i	licenske			unit_pric	available_stoc	total_stoc	supplier_i
d	у	name	description	е	k	k	d
Dig001	ABC123	Software	Digital software product	49.99	200	300	sup001
			Digital book in PDF				
Dig002	DEF456	E-book	format	9.99	500	600	sup002
		Online	Digital course with video				
Dig003	GHI789	Course	lectures	79.99	100	150	sup003
		Subscriptio	Digital subscription				
Dig004	JKL012	n	service	19.99	300	400	sup004
		Music	Digital music album in				
Dig005	MNO345	Album	MP3 format	14.99	150	200	sup005
Dig006	PQR678	Movie	Digital movie download	9.99	200	250	sup006
Dig007	STU901	Game	Digital video game	39.99	100	150	sup007
Dig008	VWX234	Audio Book	Digital audio book	29.99	80	120	sup008
		Software					
Dig009	YZA567	Tool	Digital software tool	69.99	150	200	sup009
			Digital magazine				
Dig010	BCD890	E-magazine	subscription	4.99	300	400	sup010

05) Sample data for order table

order_id	date	customer_id	Total_amount	status
Ord001	4/1/2024	Cus001	299.99	Shipped
Ord002	4/2/2024	Cus002	199.99	Delivered
Ord003	4/3/2024	Cus003	399.99	Pending
Ord004	4/4/2024	Cus004	599.99	Shipped
Ord005	4/5/2024	Cus005	499.99	Delivered
Ord006	4/6/2024	Cus006	99.99	Shipped
Ord007	4/7/2024	Cus007	199.99	Delivered
Ord008	4/8/2024	Cus008	149.99	Pending
Ord009	4/9/2024	Cus009	799.99	Shipped

		~		
Ord010	4/10/2024	Cus010	349 99	Delivered

06)Sample data for order_details table

order_details_id	quantity	order_id	unit_price	total_price
Od001	1	Ord001	999.99	999.99
Od002	2	Ord002	699.99	1399.98
Od003	3	Ord003	19.99	59.97
Od004	1	Ord004	39.99	39.99
Od005	2	Ord005	14.99	29.98
Od006	1	Ord006	299.99	299.99
Od007	1	Ord007	129.99	129.99
Od008	2	Ord008	79.99	159.98
Od009	3	Ord009	24.99	74.97
Od010	1	Ord010	29.99	29.99

07) Sample data for customer table

customer_id	first_name	last_name	<u>email</u>	address
Cus001	Alice	Johnson	alice.johnson@gmail.com	123 Pine Street
Cus002	Bob	Smith	bob.smith@gamil.com	456 Oak Street
Cus003	Charlie	Williams	charlie.williams@gmail.com	789 Maple Street
Cus004	David	Brown	david.brown@gmail.com	101 Elm Street
Cus005	Emma	Jones	emma.jones@gmail.com	202 Cedar Street
Cus006	Frank	Taylor	frank.taylor@gmail.com	303 Birch Street
				404 Walnut
Cus007	Grace	Anderson	grace.anderson@gmail.com	Street
Cus008	Henry	Martinez	henry.martinez@gmail.com	505 Ash Street
				606 Oakwood
Cus009	Ivy	Garcia	ivy.garcia@gmail.com	Avenue
				707 Elmwood
Cus010	Jack	Lopez	jack.lopez@gmail.com	Drive

08) Sample data for customer_contact table

customer_id	contact_no
Cus001	077-456-7890
Cus002	075-567-8901
Cus003	091-678-9012
Cus004	081-789-0123
Cus005	072-890-1234
Cus006	075-901-2345
Cus007	076-012-3456
Cus008	075-123-4567
Cus009	072-234-5678
Cus010	076-345-6789

09) Sample data for physical product_order deatils table

order_detail_id	product_id	type
Od001	Phy001	Electronics
Od002	Phy002	Electronics
Od003	Phy003	Clothing
Od004	Phy004	Clothing
Od005	Phy005	Books
Od006	Phy006	Electronics
		Home
Od007	Phy007	Appliances
		Home
Od008	Phy008	Appliances
Od009	Phy009	Toys
Od010	Phy010	Toys

10) Sample data for digitalproduct_orderdetails table

order_details_id	product_id	lisecskey
Od001	Dig001	ABC123
Od002	Dig002	DEF456
Od003	Dig003	GHI789

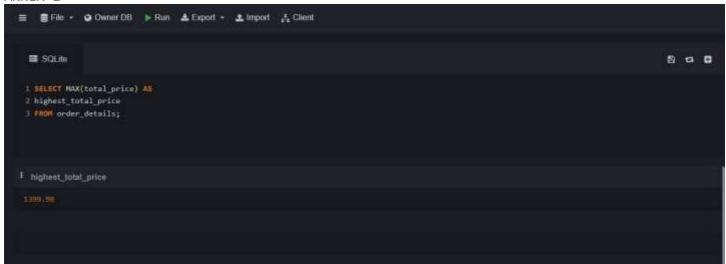
Od004	Dig004	JKL012
Od005	Dig005	MNO345
Od006	Dig006	PQR678
Od007	Dig007	STU901
Od008	Dig008	VWX234
Od009	Dig009	YZA567
Od010	Dig010	BCD890

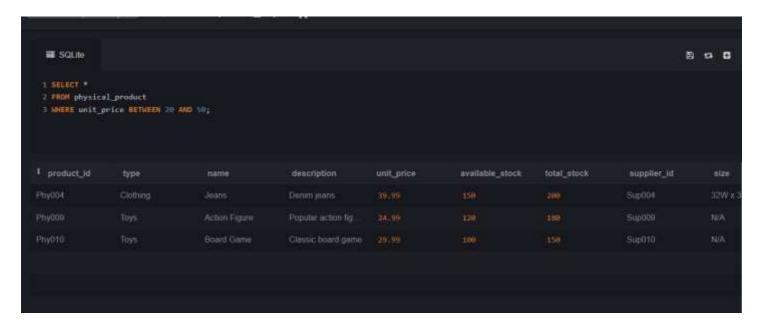
8. Annextures

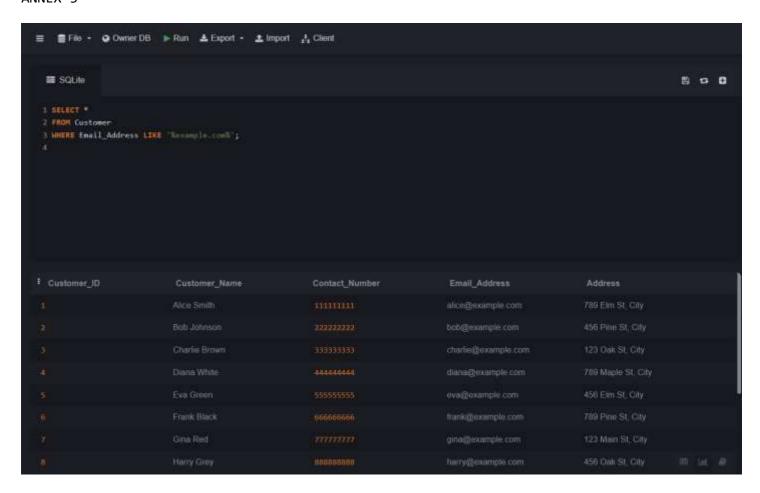
Link for Annex =

 $https://drive.google.com/drive/folders/1feSlplpApDYy65vDhC4ySGWLEySXX4nD?usp=drive_link$

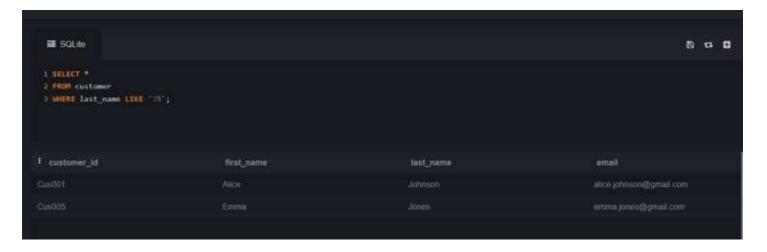
ANNEX 1

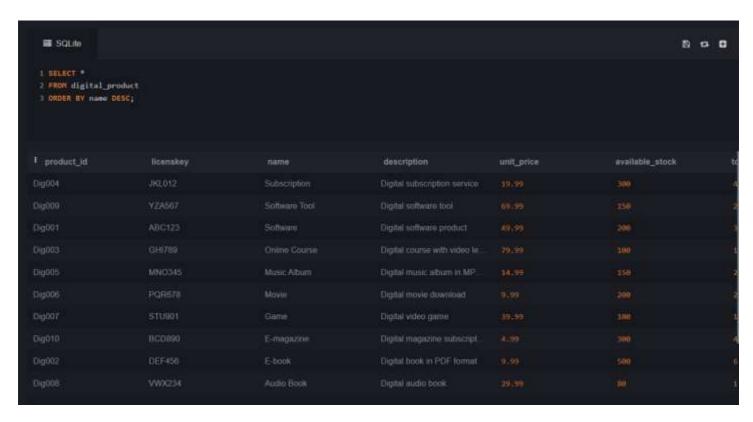






ANNEX 4

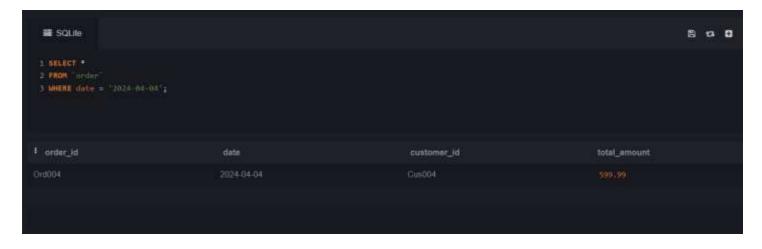




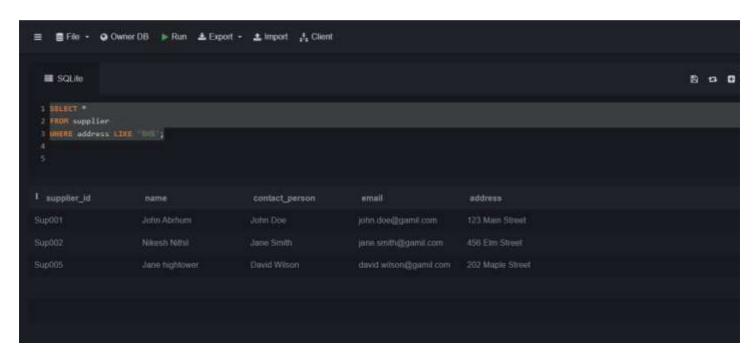
ANNEX 6

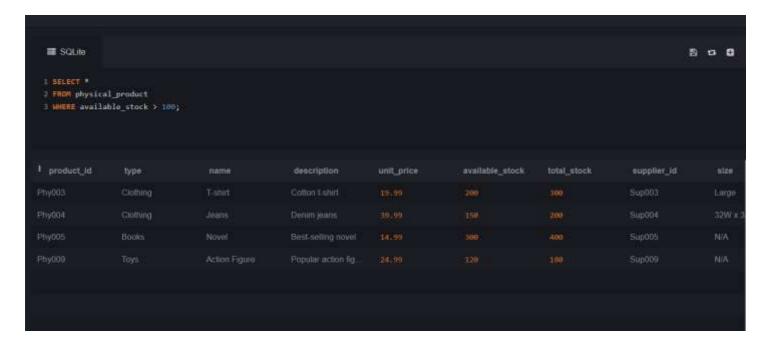
```
I SELECT MIN(unit_price) A5 lowest_price
2 FROW physical_product;

| lowest_price | 14.99
```



ANNEX 8





```
I SHLECT MAX(total_price) A5
2 highest_total_price
3 [MON order_details;

thighest_total_price
1399.98)
```