



ICT200: INTRODUCTION TO DATABASE MANAGEMENT

Semester October 2023 – January 2024

Report: JERSEY ORDERING SYSTEM FOR HIPSTRIKE EXCLUSIVE

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Evaluation Form for the Final Database Project (ICT200)-20%

Project Report Proposal & Final Report Grading Rubric**Project Title: Jersey Ordering System For Hipstrike Exclusive****Group No: 5****Student's Name:**

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Criteria	Score				Weight	Total score	Total / section
	1	2	3	4			
Format	Major errors in formatting	Minor errors in formatting	All specified formatting style has been portrait.	NA	NA	1	3
Company background	Poor description of facts. Much information is not provided	Paragraph lack of clear ideas. Not enough information provided from the organization.	Some paragraphs have clear ideas, but the paragraph transitions are weak. Provide basic information from the organization	Most paragraphs have clear ideas, and provide additional information from the organization	All paragraphs have clear ideas and provide additional information and necessary pictures or images from the organization.	1	5
Current System Descriptions	Content is not sound.	Content is sound and solid; description is present but not	Well-presented; descriptions are detailed, developed, and supported	Exceptionally well-presented; descriptions are detailed, well-developed, well-supported	Exceptionally well-presented; descriptions are detailed, well-developed, well-supported	1	5

		particularly developed or supported; some evidence, but usually of a generalized nature. Only provide process flow chart.	with evidence and details, mostly specific.	with specific evidence & facts, as well as examples	with specific evidence & facts, as well as examples and process flow chart	
Problem statements	Provide less than three statements. No descriptions and examples given. Provide wrong facts.	Provide less than three statements with brief description. No examples given. Irrelevant explanations and examples given.	Provide three statements. No descriptions and examples given	Provide three statement and clearly identifies and summarizes main issues related with manual system or file-based approach.	Provide three statement and clearly identifies and summarizes main issues related with manual system or file-based approach. They also clearly stated some relevant sub-problems because of the manual system. Examples of the problems are given.	1 5
System Objectives	Provide less than three objectives. No descriptions and examples given. Provide wrong facts.	Provide less than three objectives with brief description. No examples given. Irrelevant explanations and examples given.	Provide three objectives. No descriptions and examples given	Provide three objectives of the project. The objectives have been specified clearly.	Provide three objectives of the project. The objectives have been specified clearly. They stated that they want to analyse, design, and develop as the objective.	1 5
DATABASE DESIGN						
Final ERD	Wrong ERD	Many errors in connectivities, labels and notations.	Some errors in connectivities, labels and notations.	Some errors in labels only. All connectivities and notation are correct.	Use correct notation, provide correct connectivity, has relationship and cardinality.	1 5
3NF Relational schema	Incorrect form of relational schema	>3 tables are not in 3NF.	1-2 tables are not in 3NF.	All tables have been in 3NF but PK and FK not proper display. Use proper table name.	All tables have been in 3NF. Show proper PK and FK. Also use proper table name.	1 5
Data dictionary	Incorrect form of data dictionary	>3 table incorrect of data type, PK and FK	1-2 table incorrect of data type, PK and FK	All the table with correct data type but PK Not complete.	All the table with correct data type, complete PK and FK	1 5

DATABASE IMPLEMENTATION						TOTAL	
Data Definition Language (DDL)		Data Manipulation Language (DML)					
CREATE TABLE Statement	There's command with major errors.	There's command with minor errors.	More than three tables' commands are not included.	One/two of the tables' commands are not included	Provide commands for ALL tables	1	5
1. SELECT statement for ALL tables with minimum 10 records for appropriate tables	The records from more than five tables are not included	The records from three/four tables are not included	The records from two tables are not included	The records from one table are not included	The relevant records for ALL tables are included	1	5
2. Retrieving Data from Multiple Tables. (at least 5 queries)	One query is included and incorrect command	Two queries are included. Irrelevant but correct command	Three queries are included and correct command	Four queries are included. Provide correct, good, and relevant commands	Five queries are included. Provide correct, meaningful, excellent, and relevant commands	2	10
3. Simple Query (at least 5 queries) ((Comparison operator, IN, BETWEEN, LIKE)	One query is included and incorrect command	Two queries are included. Irrelevant but correct command	Three queries are included and correct command	Four queries are included. Provide correct, good, and relevant commands	Five queries are included. Provide correct, meaningful, excellent, and relevant commands	1	5
4. Column Functions (at least 3 queries)	One query is included and incorrect command	Two queries are included. Irrelevant but correct command.	Three queries are included and correct command	Three queries are included. Provide correct, good, and relevant commands	Three queries are included. Provide correct, meaningful, excellent, and relevant commands	1	5
5. Using Subqueries (at least 3 queries)	One query is included and incorrect command	Two queries are included. Irrelevant but correct command	Three queries are included and correct command	Three queries are included. Provide correct, good, and relevant commands	Three queries are included. Provide correct, meaningful, excellent, and relevant commands	1	5
References	The sources are not cited correctly according to APA style, nor listed style, nor listed correctly. Only one reference is listed	There may be a few errors in APA style citation. Only two references are listed	Listed references conform to APA style citation. Provide at least three references.	NA	NA	1	3

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4. Member's Profile

The project teams responsible for the successful execution of this proposal includes the following members :

MEMBER'S PROFILE
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DATE OF BIRTH: 22 JANUARY 2004



5. Company Background

Our project revolves around the development of a comprehensive Clothes Selling System tailored for Hipstrike Exclusive Clothing Brand Sdn.Bhd. Founded in November 2020, Hipstrike is a real apparel company with its headquarters in Bandar Baru Bangi. This company are also operating their business at Lot 1740, Jalan Kampung Tanjung Jawa, 45200 Sabak Bernam, Selangor that conducted by Mr.Adnin. Customer can contact via contact number 013-997 0546 or direct email to Mr.Adnin with email address name neynzsama@gmail.com. The company specializes in sublimation jerseys that are suitable for individuals of all ages and genders. These jerseys are not only super comfortable for sports activities but also align with the modern fashion trend, making them perfect for those who love to showcase their outfits.

Objectives

- i. Aiming to sell high quality products with the best affordable price
- ii. To give customers the best experience with customer service
- iii. To build a strong base in the local apparel industry

Vision

Hipstrike Exclusive Clothing Brand Sdn. Bhd aspires to propel its local apparel brand onto the international stage Committed to excellence, the company is prepared to invest significantly in both financial resources and time to ensure the delivery of top-notch product quality to its customers.

Mission

Hipstrike Exclusive Clothing Brand Sdn. Bhd has a very clear and simple mission statement, summarizing the direction and objectives of human resource management in two one values, namely :

- **Primary Objective:** To establish Hipstrike as the premier clothing brand in Malaysia.
- **Long-Term Goal (10 Years):** Expand the apparel business throughout Malaysia and foster entrepreneurship in the clothing industry.



Universiti Teknologi MARA

Hipstrike Exclusive Company Platform

HIPSTRIKE OFFICIAL HQ
Clothing (Brand)
-SUBLIMATION EXPERT
-CUSTOM BAJU SETARAF BAJU BRANDED
➡️ Click Link To Purchase
See translation
🔗 linktr.ee/HipstrikeApparel

Follow Message +
COACHING POSTAGE EVENT INSTAFAM ACHIEVEMENTS
GRID GALLERY

RESULT SALES TEAM SEBULAN TOTAL PEG SOLAHIN THANK YOU FOR YOUR SUPPORT

BUY & WIN IPRO & AIRPODS

@HipstrikeApparel

ORDER LAST BATCH UITM V1 & V2
NAK CUSTOM BAJU PREMIUM
HIPSTRIKE COMMUNITY

Linktree*

Organizational Chart





6. Current System Description

Hipstrike Exclusive currently employs a manual database system wherein customer data(name, phone number, address, e-mail) for orders is collected and documented on physical paper.

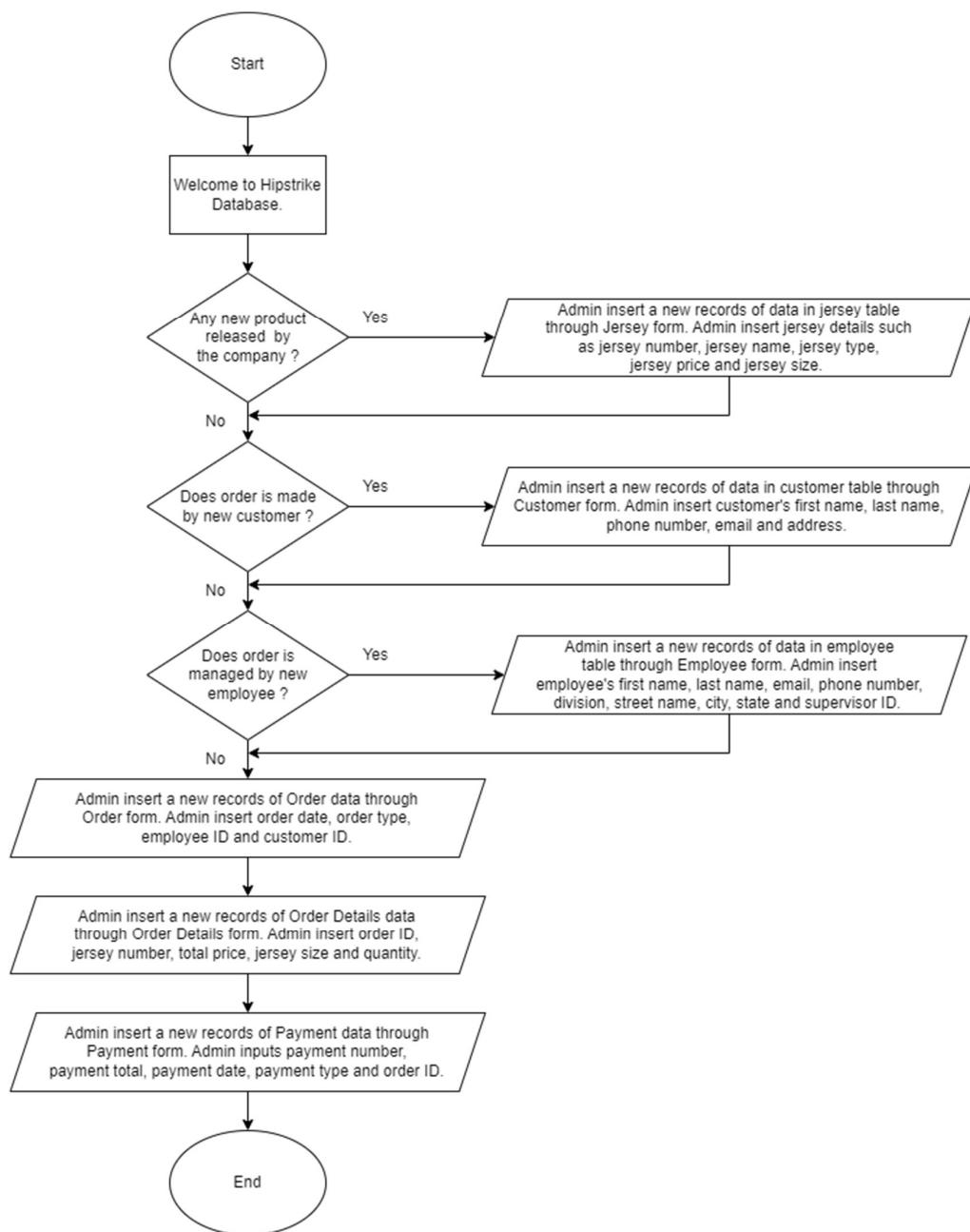
Specifically, when customers place orders for jerseys, the company records the order id, jersey number and quantity on paper forms, which are then used to place orders with suppliers. The documentation of data, such as the quantity of jerseys ordered, lacks thorough and systematic organization, as it is simply recorded on paper for future reference by both the company and the suppliers. In instances where there is an insufficient number of jerseys ordered, the data on these paper records becomes crucial for both parties.

Subsequently, the jerseys are either delivered to Hipstrike Exclusive via external delivery services or picked up by the company's van directly from the supplier's manufacturing facility. However, the information regarding the quantity of jerseys and the delivery process is not systematically documented; instead, it is recorded on paper.

Upon the jersey's arrival at the company, the design process begins, where customer requested designs are created. Unfortunately, the details (order id, jersey number and quantity) and customer information (id, first name, last name, phone number and email) are not appropriately documented; they are simply noted on paper, and the design process relies on images received from customers through WhatsApp. In the event of unexpected issues, such as errors in phone numbers for specific designs, these concerns are directed to the admin responsible for order management.

Once the jerseys are produced, they are sent to customers in batches. Given the high volume of monthly orders, the company faces challenges during the distribution process. The staff needs to manually review all customer data, flipping through numerous paper records. This manual review process can result in overlooked data or difficulties in locating necessary information, often requiring a restart from the beginning. Consequently, this manual handling of data contributes to delays in the delivery process, causing a substantial amount of time to be expended.

Hipstrike Exclusive Ordering System Flowchart





Flowchart Explanation

This flowchart shows how JERSEY ORDERING SYSTEM FOR HIPSTRIKE EXECLUSIVE arranges the process in their company, from how they release new jersey from the company until making the records of payment from customers who buy their jersey. First admin needs to check if the company has released a new jersey or not. If yes, admin needs to insert a new record of data in jersey table through Jersey form. Admin insert jersey details such as jersey number, jersey name, jersey type, jersey price and jersey size. Second, admin needs to check does order is made by new customers, if yes admin needs to insert a new record of data into customer table through Customer form. Admin needs to insert customer's first name, last name, phone number, email, and address. Third, admin needs to check if the order is managed by new employee, if yes admin need to insert a new record of data in employee table through Employee form. Admin needs to insert employee's first name, last name, email, phone number, division, street name, city, state, and supervisor ID. Forth, Admin need to insert a new records of order data through Order form. Admin needs to insert order date, order type, employee ID and customer ID. Fifth, admin needs to insert a new records of order details data through Order Details form. Admin insert order ID, jersey number, total price, jersey size and quantity. Lastly, admin needs to insert a new records of payment data through Payment form. Admin inputs payment number, payment total, payment date, payment type and order ID.



7. Problem Statement

1. Inefficiencies in Order Management

Suppose a staff member takes a customer order manually, and due to a mistake, they end up ordering more items than the customer intended. This can result in excess inventory that may not sell quickly, leading to financial losses for the company. Additionally, lack of accountability and unclear individual responsibilities results from an ineffective system for assigning order management tasks to staff members, which makes it more difficult for the business to standardize processes and improve overall operational effectiveness.

2. Time and energy-intensive manual management

The manual system demands significant time and effort from the Hipstrike staff as they are required to recheck every piece of data related to customers, orders and agent records. For instance, when verifying customer information for a new order, staff members may need to manually sift through stacks of paper leading to inefficiencies and potential errors to delays in processing orders and potentially affecting customers satisfaction.

3. Payment Tracking

Hipstrike Exclusive Clothing Brand Sdn. Bhd.'s ability to accurately double-check payments and obtain thorough financial insights is limited by manual processes for tracking customer payments, which may also result in errors and inefficiencies. This affects the overall integrity of the company's financial transactions.

4. Lack of a centralized data customer detail

The absence of a centralized and integrated customer information system results in inefficient customer service, as Hipstrike E\$xclusive Clothing Brand Sdn.Bhd. struggles to quickly access and utilize comprehensive customer histories, preferences, and transaction details, hindering the company's ability to provide personalized assistance and address customer inquiries effectively.



8. Database Objective

Based on the provided problem statement, various objectives can be incorporated into the design of the clothing selling system. These objectives will serve as criteria for evaluating the ultimate success or failure of the database system upon project completion.

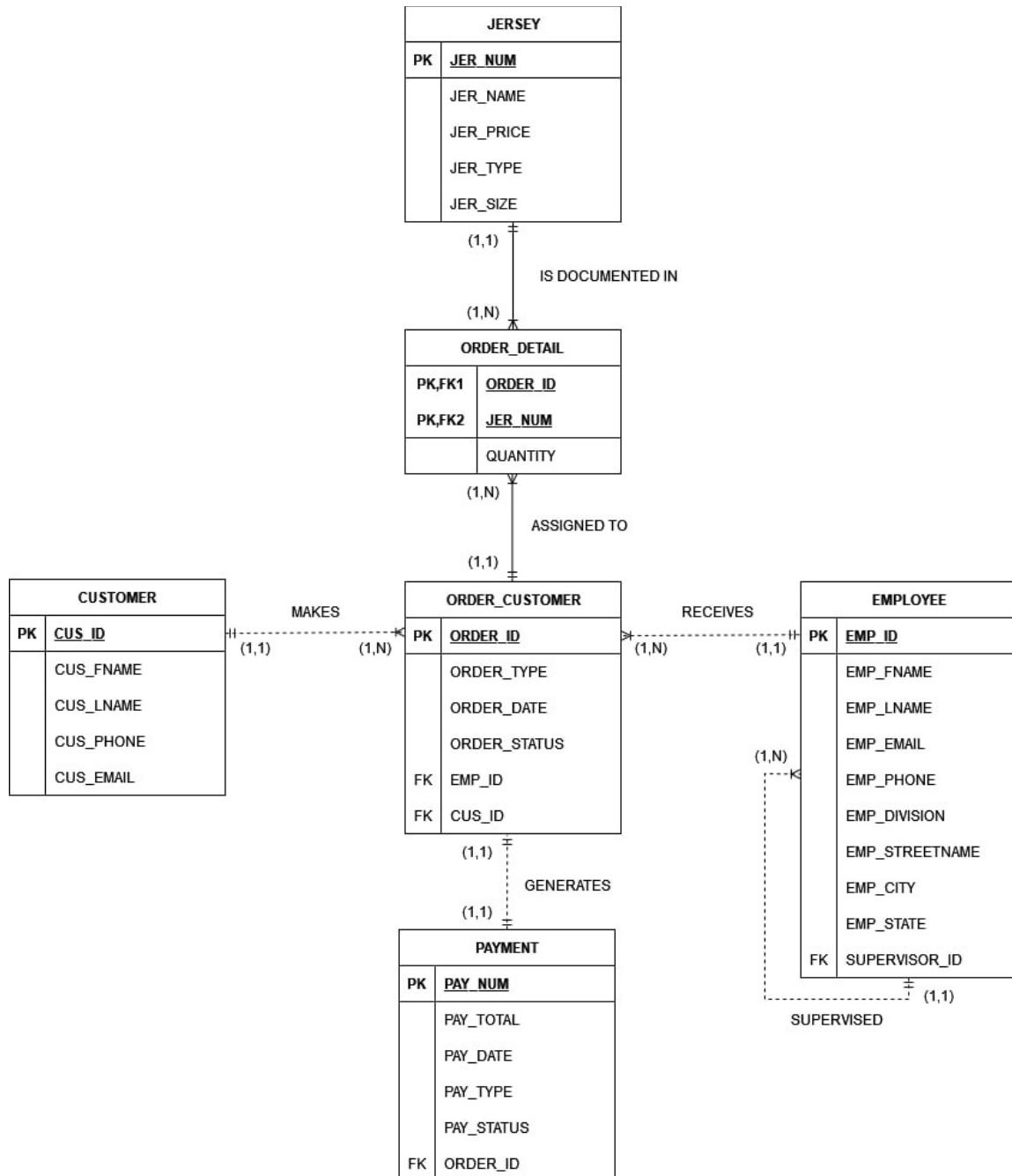
1. The system aims to be able to **determine who is under which supervisor in the organization** to arrange and comprehend the organizational hierarchy. Understanding the reporting structure inside the company and making better management decisions are made possible by having a clear picture of the workers who report directly to a given supervisor. It retrieves information about these employees, including order IDs, first and last names, and employee numbers. By displaying who reports to whom in the chain of command, this aids in structuring the relationships inside the organization.
2. The next goal is to **create a clear link between workers and their assigned duties related to order management**. Hipstrike Exclusive Clothing Brand Sdn. Bhd. will be able to identify staff members assigned to particular orders by retrieving employee details (ID, first name, last name) associated with a given order, which promotes accountability and an obvious understanding of individual duties within the organization.
3. Additionally, this system contributes to a way to **double-check the payments that have been made by the customers and see if everything went smoothly in a particular month**. This way, the company can see how much money came in and check if everything was paid correctly for those specific orders. Hipstrike Exclusive Clothing Brand Sdn. Bhd will be able to extract and analyze successful payment transactions associated with orders within the defined date range, offering financial insights and aiding in monitoring transactional performance.



4. Moreover, this system contributes to **gather payment details falling within a particular range**. By isolating payments within particular range, Hipstrike Exclusive Clothing Brand Sdn. Bhd can analyze how customers spend within this bracket. Analyzing spending within a specific range helps figure out what exactly customers prefer to buy when they're spending within that particular amount.
5. Furthermore, the system aims **to provide specific information related to customers and the respective payment numbers associated with those orders**. Having access to customer IDs, names, order IDs, and payment numbers in one dataset enables personalized and efficient customer service. This information can help address customer queries or concerns swiftly by having a complete picture of their transactions. This empowers customer service and offers more personalized assistance. They can quickly access a customer's history, understand their preferences, and efficiently address any inquiries or concerns.

9. Database Design

9.1 Entity Relationship Diagram (ERD)





9.2 3NF Relational Schema

JERSEY (JER_NUM, JER_NAME, JER_PRICE, JER_TYPE, JER_SIZE)

ORDER_DETAIL (ORDER_ID*, JER_NUM*, QUANTITY)

ORDER_CUSTOMER (ORDER_ID, ORDER_TYPE, ORDER_DATE, EMP_ID*, CUS_ID*)

CUSTOMER (CUS_ID*, CUS_FNAME, CUS_LNAME, CUS_PHONE, CUS_EMAIL, CUS_ADDRESS)

EMPLOYEE (EMP_ID, EMP_FNAME, EMP_LNAME, EMP_EMAIL, EMP_PHONE, EMP_DIVISON, EMP_STREETNAME, EMP_CITY, EMP_STATE, SUPERVISOR_ID*)

PAYMENT (PAY_NUM, PAY_TOTAL, PAY_DATE, PAY_TYPE, PAY_STATUS, ORDER_ID*)



9.3 Data Dictionary

TABLE NAME	ATTRIBUTE NAME	CONTENTS	TYPE	FORMAT	RANGE	REQUIRED	PK OR FK	FK REFERENCE TABLE
JERSEY	JER_NUM	Jersey code number	NUMERIC(10)	Xxxxxx	NOT NULL UNIQUE	YES	PK	
	JER_NAME	Jersey name	VARCHAR(30)	Xxxxxx	NOT NULL	YES		
	JER_PRICE	Jersey price	NUMERIC	(4, 2)	DEFAULT 0.0 NOT NULL	YES		
	JER_TYPE	Jersey material type	VARCHAR(15)	Xxxxxx	N/A	YES		
	JER_SIZE	Jersey Size	VARCHAR(10)	Xxxxxx	N/A	YES		
ORDER_DETAIL	ORDER_ID	Oder identification	VARCHAR(10)	Xxxxxx	N/A	YES	PK FK1	ORDER
	JER_NUM	Jersey code number	NUMERIC(10)	Xxxxxx	NOT NULL UNIQUE	YES	PK FK2	JERSEY
	QUANTITY	Quantity customer buy	NUMERIC(10)	011	####	YES		
ORDER_CUSTOMER	ORDER_ID	Oder identification	VARCHAR(10)	Xxxxxx	N/A	YES	PK	
	ORDER_TYPE	Order type	VARCHAR(20)	Xxxxxx	N/A	YES		
	ORDER_DATE	Date customer order	DATE	mm-dd-yyyy	SYSDATE	YES		
	ORDER_STATUS	Status order after checkout	VARCHAR(20)	Xxxxxx	N/A	YES		
	EMP_ID	Employer identification	NUMERIC(4)	Xxxxxx	N/A	YES	FK	EMPLOYEE
	CUS_ID	Customer identification	VARCHAR(10)	Xxxxxx	N/A	YES	FK	CUSTOMER
PAYMENT	PAY_NUM	Pay code number	NUMERIC(10)	Xxxxxx	####	YES	PK	
	PAY_TOTAL	Total price customer have to pay	NUMERIC(10,2)	0-10000	###	YES		
	PAY_DATE	Date customer paid	DATE	mm-dd-yyyy	SYSDATE	YES		
	PAY_TYPE	Type of method customer making payment	VARCHAR(10)	Xxxxxx	N/A	YES		
	PAY_STATUS	Status Payment	VARCHAR(20)	Xxxxxx	N/A	YES		
	ORDER_ID	Order identification	VARCHAR(10)	Xxxxxx	N/A	YES	FK	ORDER
EMPLOYEE	EMP_ID	Employee identification	NUMERIC(4)	Xxxxxx	N/A	YES	PK	



	EMP_FNAM E	Employee first name	VARCHAR(20)	Xxxxxx	N/A	YES		
	EMP_LNAME	Employee last name	VARCHAR(20)	Xxxxxx	N/A	YES		
	EMP_EMAIL	Employee email	VARCHAR(50)	Xxxxxx	N/A	YES		
	EMP_PHONE	Employee phone number	NUMERIC(20)	Xxxxxx	N/A	YES		
	EMP_DIVISION	Employee division	VARCHAR(20)	Xxxxxx	N/A	YES		
	EMP_STREETNAME	Employee street name	VARCHAR(50)	Xxxxxx	N/A	YES		
	EMP_CITY	Employee city	VARCHAR(50)	Xxxxxx	N/A	YES		
	EMP_STATE	Employee state	VARCHAR(50)	Xxxxxx	N/A	YES		
	SUPERVISOR_ID	Supervisor identification	NUMERIC(4)	Xxxxxx	N/A	YES	FK	EMPLOYEE
CUSTOMER	CUS_ID	Customer identification	VARCHAR(20)	Xxxxxx	N/A	YES	PK	
	CUS_FNAM E	Customer first name	VARCHAR(20)	Xxxxxx	N/A	YES		
	CUS_LNAME	Customer last name	VARCHAR(20)	Xxxxxx	N/A	YES		
	CUS_PHONE	Customer phone number	NUMERIC(20)	Xxxxxx	N/A	YES		
	CUS_EMAIL	Customer email	VARCHAR(50)	Xxxxxx	N/A	YES		



10 Database Implementation

10.1 Data Definition Language (DDL)

1. Create Database Jersey

```
CREATE DATABASE JERSEY;
USE JERSEY;
✓ 1 11:49:18 CREATE DATABASE JERSEY
```

2. Create Table Jersey

```
• CREATE TABLE JERSEY (
    JER_NUM NUMERIC(10) NOT NULL UNIQUE,
    JER_NAME VARCHAR(30) NOT NULL,
    JER_PRICE NUMERIC (4,2) DEFAULT 0.0 NOT NULL,
    JER_TYPE VARCHAR(15),
    JER_SIZE VARCHAR(10),
    PRIMARY KEY(JER_NUM));
✓ 3 11:50:04 CREATE TABLE JERSEY (JER_NUM NUMERIC(10) NOT NULL UNIQUE, JER_NA...
```

3. Create Table Customer

```
• CREATE TABLE CUSTOMER (
    CUS_ID VARCHAR(20) NOT NULL UNIQUE,
    CUS_FNAME VARCHAR(20),
    CUS_LNAME VARCHAR(20),
    CUS_PHONE NUMERIC(20),
    CUS_EMAIL VARCHAR(50),
    PRIMARY KEY (CUS_ID));
✓ 5 11:50:45 CREATE TABLE CUSTOMER (CUS_ID VARCHAR(20) NOT NULL UNIQUE, CUS_... 0 row(s) affected
```



4.Create Table Employee

```
• CREATE TABLE EMPLOYEE (
    EMP_ID NUMERIC(4) NOT NULL UNIQUE,
    EMP_LNAME VARCHAR(20),
    EMP_FNAME VARCHAR(20),
    EMP_EMAIL VARCHAR(50),
    EMP_PHONE NUMERIC(20),
    EMP_DIVISION VARCHAR(20),
    EMP_STREETNAME VARCHAR(50),
    EMP_CITY VARCHAR(50),
    EMP_STATE VARCHAR(50),
    SUPERVISOR_ID NUMERIC(4),
    PRIMARY KEY (EMP_ID),
    FOREIGN KEY (SUPERVISOR_ID) REFERENCES EMPLOYEE(EMP_ID));
```

6 11:51:06 CREATE TABLE EMPLOYEE (EMP_ID NUMERIC(4) NOT NULL UNIQUE, EMP_LN... 0 row(s) affected

5.Create Table Order_Customer

```
• CREATE TABLE ORDER_CUSTOMER (
    ORDER_ID VARCHAR(10) NOT NULL UNIQUE,
    ORDER_TYPE VARCHAR(10),
    ORDER_DATE DATE,
    ORDER_STATUS VARCHAR(20),
    EMP_ID NUMERIC(4),
    CUS_ID VARCHAR(10),
    PRIMARY KEY (ORDER_ID),
    FOREIGN KEY (EMP_ID) REFERENCES EMPLOYEE(EMP_ID),
    FOREIGN KEY (CUS_ID) REFERENCES CUSTOMER(CUS_ID));
```

8 11:51:39 CREATE TABLE ORDER_CUSTOMER (ORDER_ID VARCHAR(10) NOT NULL UNI... 0 row(s) affected



6.Create Table Order_Detail

```
CREATE TABLE ORDER_DETAIL (
    ORDER_ID VARCHAR(10),
    JER_NUM NUMERIC(10) NOT NULL,
    QUANTITY NUMERIC(10),
    FOREIGN KEY (ORDER_ID) REFERENCES ORDER_CUSTOMER(ORDER_ID),
    FOREIGN KEY (JER_NUM) REFERENCES JERSEY(JER_NUM),
    PRIMARY KEY (ORDER_ID, JER_NUM));
```

✓ 9 11:51:53 CREATE TABLE ORDER_DETAIL (ORDER_ID VARCHAR(10) NOT NULL UNIQUE... 0 row(s) affected

7. Create Table Payment

```
CREATE TABLE PAYMENT (
    PAY_NUM NUMERIC(10) NOT NULL UNIQUE,
    PAY_TOTAL NUMERIC(10,2),
    PAY_DATE DATE,
    PAY_TYPE VARCHAR(10),
    PAY_STATUS VARCHAR(20),
    ORDER_ID VARCHAR(10),
    PRIMARY KEY (PAY_NUM),
    FOREIGN KEY (ORDER_ID) REFERENCES ORDER_CUSTOMER(ORDER_ID));
```

✓ 11 11:52:32 CREATE TABLE PAYMENT (PAY_NUM NUMERIC(10) NOT NULL UNIQUE, PAY_... 0 row(s) affected

10.2. Data Manipulation Language (DML)

i) Show Data Table

1.Table Jersey

	JER_NUM	JER_NAME	JER_PRICE	JER_SIZE	JER_TYPE
▶	7001	UITM_V1	59.00	XL	MICRO_IN
	7002	UITM_V2	59.00	L	MICRO_EYE
	7003	MATRIC_23	70.00	S	POLYESTER
	7004	UITM_V4	60.00	M	MICRO_EYE
	7005	BLACK_VER	80.00	M	POLYESTER
	7006	WHITE_VER	75.00	L	MICRO_IN
	7007	MATRIC	65.00	S	POLYESTER
	7008	POLI	59.00	XL	MICRO_EYE
	7009	UITM_V3	78.00	S	POLYESTER
	7010	UITM_V5	60.00	M	MICRO_EYE
	7011	UPSI	65.00	L	MICRO_IN
	7012	UITM_V6	70.00	L	MICRO_IN
	7013	MATRIC_2	80.00	XL	POLYESTER
	7014	UKM	76.00	XL	MICRO_EYE
	7015	UNISZA	80.00	S	POLYESTER
	7016	UMT	55.00	S	MICRO_IN
	7017	UITM_V7	65.00	S	MICRO_EYE
	7018	UITM_V8	75.00	M	POLYESTER
	7019	MERDEKA	75.00	XL	MICRO_IN
	7020	UPSI_2	79.00	M	POLYESTER
	7021	MULTI_UNI	65.00	XL	MICRO_EYE
	7022	SEL_EDITION	75.00	L	POLYESTER
	7023	ZEALOUS	80.00	L	MICRO_IN
	7024	UITM_V1	65.00	XXL	MICRO_IN
	7025	MATRIC_2	85.00	XXXL	POLYESTER
	7026	UMT	65.00	XXL	MICRO_IN
	7027	MERDEKA	75.00	XS	MICRO_IN
	7028	ZEALOUS	80.00	XXS	MICRO_IN
	7029	UKM	76.00	M	MICRO_EYE
	7030	UITM_V3	85.00	XXL	POLYESTER
*	7031	UNISZA	80.00	L	POLYESTER
*	NULL	NULL	NULL	NULL	NULL

2. Table Customer

	CUS_ID	CUS_FNAME	CUS_LNAME	CUS_PHONE	CUS_EMAIL
▶	C001	Amierul	Hafizie	124557564	amfie23@gmail.com
	C002	Hanif Aziz	Shaukie	112345624	hankie@gmail.com
	C003	Zapphiera Amni	Aming	123436845	phini2@gmail.com
	C004	Fairuz	Najmel	148956897	njmeez@gmail.com
	C005	Farhana	Syabill	1133138600	frhaasybla@gmail.com
	C006	Nilam Saffira	Safawi	125690753	nliwffira@gmail.com
	C007	Sharippudin	Salmani	1945340834	shrislmi@gmail.com
	C008	Bashira Nabihah	Badrul	174569833	bbshira@gmail.com
	C009	Raisha Izzara	Mohd Razi	156734537	rhzza@gmail.com
	C010	Ghazali Rabbani	Awang	1609354325	ggawang@gmai.com
	C011	Yusuff Al-Qara...	Abu Bakar	1430008766	ysffwi@gmail.com
	C012	Nurliyana Hanisah	Mohammad...	137609345	lynahnis@gmail.com
	C013	Razilah	Rahman	125561789	rrazilah@gmail.com
	C014	Rashid	Rafael	1155736573	rshiddrf@gmail.com
	C015	Nik Maryam	Nik Razmani	105673854	nikmryam@gmail.com
	C016	Jauhar Nafis	Mohd Azmir	1345786547	jhrnfis@gmail.com
	C017	Qasrina Irdina	Idriss	175480170	qsrinadina@gmail.com
	C018	Iffah Nadhirah	Zafrul Hadi	184045783	iffartdi@gmail.com
	C019	Luqman Hakimie	Mohd Hazrie	1387564587	lqkimie@gmail.com
	C020	Aliff Najmee	Irfan Haris	144909091	alinjmee@gmail.com
	C021	Darren Kairiel	Mohd Zulkifle	155734952	drrenkhr@gmail.com
	C022	Qhairulnissa	Rashidi Hamid	167544567	qrnisaa@gmail.com
	C023	Masturina	Mansor	145679081	mmsti@gmail.com
	C024	Syabil Safawi	Ahmad Salim	1159735846	sysafwi@gmail.com
	C025	Sajastanah	Imam Koneng	198873654	sjasko@gmail.com
	C026	Yogarashini	Gopal	185672458	yygoo@gmail.com
	C027	Hup Yup	Seng	175862648	cappingpong@gmail.c...
	C028	Emilio Lika	Nadem	1567835676	ayiyi@gmail.com
	C029	Naiema	Bakar	106554589	bkrmaq@gmail.com
	C030	Ahmad Mursyid...	Jamaluddin	102348751	syidden@gmail.com
	C031	Luisa	Benjamin	1311338600	luffy@gmail.com
*	NULL	NULL	NULL	NULL	NULL



3. Table Employee

	EMP_ID	EMP_LNAME	EMP_FNAME	EMP_EMAIL	EMP_PHONE
▶	8001	ASRI	AISYAH	Aisyah@gmail.com	113448762
	8002	AZMI	NANA	Nana@gmail.com	198739781
	8003	FAIZAL	ALIA	Yaya@gmail.com	1734556234
	8004	NASAR	NADHIR	Nadhir@gmail.com	195630963
	8005	ASHRAF	AEDY	Aedyy@gmail.com	1276409821
	8006	AZRIL	AMELIA	Amelia@gmail.com	1123476549
	8007	NABIL	ILYA	Ilya@gmail.com	137659823
	8008	ADNI	FARISHA	Farisha@gmail.com	1187645234
	8009	AZMI	ELYA	Elya@gmail.com	127689534
	8010	NASIE	ARISSA	Arissa@gmail.com	142989876
	8011	ABDUL	AZRIN	Azrin@gmail.com	1287660293
	8012	SHAFIQ	AIRIL	Airil@gmail.com	156239856
	8013	ADLI	LALA	Lala@gmail.com	186720479
	8014	AMRI	AZRIL	Azril@gmail.com	173208522
	8015	KIMI	AYRA	Ayra@gmail.com	17392383
	8016	AFIQ	NAUFAL	Naufal@gmail.com	183374334
	8017	AMIN	AIMAN	Man@gmail.com	146288934
	8018	HAKIMI	AZURA	Zura@gmail.com	174924932
	8019	RAHIM	HAFIZA	Jah@gmail.com	174829382
	8020	RUSDY	NADDY	Naddy@gmail.com	137492434
*	NULL	NULL	NULL	NULL	NULL

EMP_DIVISION	EMP_STREETNAME	EMP_CITY	EMP_STATE	SUPERVISOR_ID
FINANCE	JALAN MONTKIARA	BANDAR MELAKA	MELAKA	NULL
FINANCE	JALAN MONTKIARA	BANDAR MELAKA	MELAKA	8001
DATABSE DESIGNER	JALAN MANGSANA	BANGSAR	KUALA LUMPUR	8001
TECHNICIAN	JALAN MONTKIARA	BANDAR MELAKA	MELAKA	8001
DESIGNER	JALAN SOUTHLVILLE	BANGSAR	KUALA LUMPUR	8001
DESIGNER	JALAN SOUTHLVILLE	BANGSAR	KUALA LUMPUR	8001
DESIGNER	JALAN BSP	KAJANG	SELANGOR	8012
TECHNICIAN	JALAN SOUTHVILEE	BANGSAR	KUALA LUMPUR	8012
MANAGEMENT	JALAN MONTKIARA	BANDAR MELAKA	MELAKA	8014
MANAGEMENT	JALAN MONTKIARA	BANDAR MELAKA	MELAKA	8014
MANAGEMENT	JALAN BSP	KAJANG	SELANGOR	8012
MANAGEMENT	JALAN MONTKIARA	BANDAR MELAKA	MELAKA	NULL
TECHNICIAN	JALAN MONTKIARA	BANGSAR	KUALA LUMPUR	8014
DESIGNER	JALAN SOUTHLVILLE	BANGSAR	KUALA LUMPUR	NULL
DESIGNER	JALAN SOUTHLVILLE	BANGSAR	KUALA LUMPUR	8020
DESIGNER	JALAN TTDI	SETIAWANGSA	KUALA LUMPUR	8020



FINANCE	JALAN MONTKIARA	BANGSAR	KUALA LUMPUR	8014
CUSTOMER SERVICE	JALAN SOUTHVILLE	BANGSAR	KUALA LUMPUR	8020
CUSTOMER SERVICE	JALAN ANGSANA	BANGSAR	KUALA LUMPUR	8020
CUSTOMER SERVICE	JALAN ANGSANA	BANGSAR	KUALA LUMPUR	NULL
NULL	NULL	NULL	NULL	NULL

4.Table Order_Customer

	ORDER_ID	ORDER_TYPE	ORDER_DATE	ORDER_STATUS	EMP_ID	CUS_ID
▶	P001	ONLINE	NULL	PREPARING	8001	C001
	P002	ONLINE	2023-07-18	SHIPPING	8002	C002
	P003	ONLINE	2023-04-04	DELIVERING	8003	C003
	P004	NULL	NULL	NULL	8004	C004
	P005	ONLINE	2023-03-19	DELIVERING	8005	C005
	P006	ONLINE	2023-03-13	DELIVERING	8006	C006
	P007	ONLINE	2023-03-20	COMPLETED	8007	C007
	P008	ONLINE	2023-03-05	DELIVERING	8008	C008
	P009	NULL	NULL	NULL	8009	C009
	P010	ONLINE	2023-09-09	COMPLETED	8010	C010
	P011	ONLINE	2023-11-18	DELIVERING	8011	C011
	P012	ONLINE	2023-09-12	COMPLETED	8012	C012
	P013	ONLINE	2023-04-04	SHIPPING	8013	C013
	P014	NULL	NULL	NULL	8014	C014
	P015	ONLINE	2023-03-15	COMPLETED	8015	C015
	P016	ONLINE	2023-07-06	PREPARING	8016	C016
	P017	ONLINE	2023-04-04	COMPLETED	8017	C017
	P018	ONLINE	2023-07-06	COMPLETED	8007	C018
	P019	ONLINE	2023-03-19	SHIPPING	8003	C019
	P020	ONLINE	2023-05-05	DELIVERING	8020	C020
	P021	ONLINE	2023-04-08	SHIPPING	8020	C021
	P022	ONLINE	2023-04-04	DELIVERING	8008	C022
	P023	ONLINE	2023-05-09	PREPARING	8009	C023
	P024	ONLINE	2023-02-07	DELIVERING	8006	C024
	P025	ONLINE	2023-04-04	SHIPPING	8002	C025
	P026	ONLINE	2023-02-07	DELIVERING	8001	C026
	P027	ONLINE	2023-03-07	DELIVERING	8018	C027
	P028	NULL	NULL	NULL	8004	C028
	P029	ONLINE	2023-12-07	COMPLETED	8002	C029
	P030	NULL	NULL	NULL	8002	C030
	P031	ONLINE	2023-10-09	DELIVERING	8019	C031
	P032	ONLINE	2022-01-01	DELIVERING	8015	C021
	P033	ONLINE	2022-10-16	COMPLETE	8003	C010



	P034	ONLINE	2022-10-17	COMPLETE	8009	C010
	P035	ONLINE	2022-12-20	SHIPPING	8001	C007
	P036	ONLINE	2024-01-03	PREPARING	8020	C003
	P037	ONLINE	2024-01-09	COMPLETE	8015	C010
	P038	ONLINE	2024-01-09	COMPLETE	8015	C010
	P039	ONLINE	2024-02-11	DELIVERING	8004	C022
*	P040	ONLINE	2024-02-23	PREPARING	8004	C023
	NULL	NULL	NULL	NULL	NULL	NULL

5.Table Payment

	PAY_NUM	PAY_TOTAL	PAY_DATE	PAY_TYPE	PAY_STATUS	ORDER_ID
▶	1001	59.00	NULL	WEB BNKING	PENDING	P001
	1002	177.00	2023-07-18	CRDT/DBT	SUCCESS	P002
	1003	280.00	2023-04-04	WEB BNKING	SUCCESS	P003
	1004	300.00	NULL	WEB BNKING	PENDING	P004
	1005	160.00	2023-03-19	CRDT/DBT	SUCCESS	P005
	1006	225.00	2023-03-13	WEB BNKING	SUCCESS	P006
	1007	65.00	2023-03-20	CRDT/DBT	SUCCESS	P007
	1008	177.00	2023-03-05	WEB BNKING	SUCCESS	P008
	1009	5226.00	NULL	WEB BNKING	PENDING	P009
	1010	240.00	2023-09-09	CRDT/DBT	SUCCESS	P010
	1011	325.00	2023-11-18	WEB BNKING	SUCCESS	P011
	1012	420.00	2023-09-12	WEB BNKING	SUCCESS	P012
	1013	960.00	2023-04-04	WEB BNKING	SUCCESS	P013
	1014	456.00	NULL	WEB BNKING	PENDING	P014
	1015	6880.00	2023-03-15	CRDT/DBT	SUCCESS	P015
	1016	165.00	2023-07-06	WEB BNKING	SUCCESS	P016
	1017	130.00	2023-04-04	CRDT/DBT	SUCCESS	P017
	1018	375.00	2023-07-06	WEB BNKING	SUCCESS	P018
	1019	525.00	2023-03-19	CRDT/DBT	SUCCESS	P019
	1020	237.00	2023-05-05	CRDT/DBT	SUCCESS	P020
	1021	325.00	2023-04-08	CRDT/DBT	SUCCESS	P021
	1022	450.00	2023-04-04	CRDT/DBT	SUCCESS	P022
	1023	2560.00	2023-05-09	WEB BNKING	SUCCESS	P023
	1024	455.00	2023-02-07	WEB BNKING	SUCCESS	P024
	1025	4590.00	2023-04-04	WEB BNKING	SUCCESS	P025
	1026	195.00	2023-02-07	WEB BNKING	SUCCESS	P026
	1027	300.00	2023-03-07	CRDT/DBT	SUCCESS	P027
	1028	400.00	NULL	WEB BNKING	PENDING	P028
	1029	152.00	2023-12-07	CRDT/DBT	SUCCESS	P029
	1030	340.00	NULL	WEB BNKING	PENDING	P030
	1031	6960.00	2023-10-09	CRDT/DBT	SUCCESS	P031
	1032	550.00	2022-01-01	WEB BNKING	SUCCESS	P032



	1033	720.00	2022-10-16	CRDT/DBT	SUCCESS	P033
	1034	320.00	2022-10-17	WEB BNKING	SUCCESS	P034
	1035	1725.00	2022-12-20	WEB BNKING	SUCCESS	P035
	1036	708.00	NULL	CRDT/DBT	PENDING	P036
	1037	3840.00	2024-01-09	WEB BNKING	SUCCESS	P037
	1038	300.00	2024-01-09	CRDT/DBT	SUCCESS	P038
	1039	600.00	2024-02-11	WEB BNKING	SUCCESS	P039
	1040	1920.00	NULL	WEB BNKING	PENDING	P040
*	NULL	NULL	NULL	NULL	NULL	NULL



6.Table Order_Details

	ORDER_ID	JER_NUM	QUANTITY
▶	P001	7001	1
	P002	7002	3
	P003	7003	4
	P004	7004	5
	P005	7005	2
	P006	7006	3
	P007	7007	1
	P008	7008	3
	P009	7009	67
	P010	7010	4
	P011	7011	5
	P012	7012	6
	P013	7013	12
	P014	7014	6
	P015	7015	86
	P016	7016	3



P017	7017	2
P018	7018	5
P019	7019	7
P020	7020	3
P021	7021	5
P022	7022	6
P023	7023	32
P024	7024	7
P025	7025	54
P026	7026	3
P027	7027	4
P028	7028	5
P029	7029	2
P030	7030	4
P031	7031	87
P032	7016	10
P033	7023	9
P034	7023	4
P035	7019	23
P036	7001	12
P037	7004	64
P038	7004	5
P039	7004	10
P040	7004	32
*	NULL	NULL

**ii) Question**

- Which employees are assigned to supervisor_id 8001? List Employee number, first name, last name, and order id. Order the results by employee id.

```
SELECT E.EMP_ID, E.EMP_FNAME, E.EMP_LNAME, O.ORDER_ID  
FROM EMPLOYEE E, ORDER_CUSTOMER O  
WHERE E.EMP_ID = O.EMP_ID  
AND SUPERVISOR_ID = 8001  
ORDER BY E.EMP_ID;
```

	EMP_ID	EMP_FNAME	EMP_LNAME	ORDER_ID
▶	8002	NANA	AZMI	P002
	8002	NANA	AZMI	P025
	8002	NANA	AZMI	P029
	8002	NANA	AZMI	P030
	8003	ALIA	FAIZAL	P003
	8003	ALIA	FAIZAL	P019
	8003	ALIA	FAIZAL	P033
	8004	NADHIR	NASAR	P004
	8004	NADHIR	NASAR	P028
	8004	NADHIR	NASAR	P039
	8004	NADHIR	NASAR	P040
	8005	AEDY	ASHRAF	P005
	8006	AMELIA	AZRIL	P006
	8006	AMELIA	AZRIL	P024

- Display customer information order id for P014.

```
SELECT C.CUS_ID, C.CUS_FNAME, C.CUS_LNAME, C.CUS_PHONE, C.CUS_EMAIL  
FROM CUSTOMER C, ORDER_CUSTOMER O  
WHERE C.CUS_ID = O.CUS_ID  
AND O.ORDER_ID = 'P014';
```

	CUS_ID	CUS_FNAME	CUS_LNAME	CUS_PHONE	CUS_EMAIL
▶	C014	Rashid	Rafael	1155736573	rshiddrf@gmail.com

- List a customer name, customer id and payment number for pay_num 1001 to 1008. Sum all total price in one column as total payment price.



```
SELECT C.CUS_ID, CONCAT(C.CUS_FNAME, ' ', C.CUS_LNAME) AS NAME, PAY_NUM,
SUM(PAY_TOTAL) AS 'TOTAL PAYMENT PRICE'
FROM CUSTOMER C, ORDER_CUSTOMER O, PAYMENT P
WHERE C.CUS_ID = O.CUS_ID
AND O.ORDER_ID = P.ORDER_ID
AND PAY_NUM BETWEEN 1001 AND 1008
GROUP BY C.CUS_ID, PAY_NUM;
```

	CUS_ID	NAME	PAY_NUM	TOTAL PAYMENT PRICE
▶	C001	Amierul Hafizie	1001	59.00
	C002	Hanif Aziz Shaukie	1002	177.00
	C003	Zapphiera Amni Aming	1003	280.00
	C004	Fairuz Najmel	1004	300.00
	C005	Farhana Syabill	1005	160.00
	C006	Nilam Saffira Safawi	1006	225.00
	C007	Sharippudin Salmani	1007	65.00
	C008	Bashira Nabihah Badrul	1008	177.00

4. Write a query to display all unique jersey number that exist in the JERSEY table

```
SELECT DISTINCT JER_NUM
FROM JERSEY;
```



	JER_NUM
▶	7001
	7002
	7003
	7004
	7005
	7006
	7007
	7008
	7009
	7010
	7011
	7012
	7013
	7014
	7015
	7016
	7017
	7018
	7019
	7020
	7021
	7022
	7023
	7024
	7025
	7026
	7027
	7028
	7029
	7030
	7031
*	NULL



5. Write a query to display the payment number, payment type and payment total, where payment total between RM500 AND RM1000. Sort the result according payment number descending.

```
SELECT PAY_NUM, PAY_TYPE, PAY_TOTAL  
FROM PAYMENT  
WHERE PAY_TOTAL BETWEEN 500.00 AND 1000.00  
ORDER BY PAY_NUM DESC;
```

	PAY_NUM	PAY_TYPE	PAY_TOTAL
▶	1039	WEB BNKING	600.00
	1036	CRDT/DBT	708.00
	1033	CRDT/DBT	720.00
	1032	WEB BNKING	550.00
	1019	CRDT/DBT	525.00
	1013	WEB BNKING	960.00
*	NULL	NULL	NULL

6. Write a query which displays the employee id, employee first name and employee phone number where employee state is 'Selangor' and sort the result by supervisor id ascending.

```
SELECT EMP_ID, EMP_FNAME, EMP_PHONE, SUPERVISOR_ID  
FROM EMPLOYEE  
WHERE EMP_STATE = 'Selangor'  
ORDER BY SUPERVISOR_ID ASC;
```

	EMP_ID	EMP_FNAME	EMP_PHONE	SUPERVISOR_ID
▶	8007	ILYA	137659823	8012
	8011	AZRIN	1287660293	8012
*	NULL	NULL	NULL	NULL

7. Write a query to display all the order customer that occurred on the 4th April 2023

```
SELECT *  
FROM ORDER_CUSTOMER  
WHERE ORDER_DATE = '2023-04-04';
```



	ORDER_ID	ORDER_TYPE	ORDER_DATE	ORDER_STATUS	EMP_ID	CUS_ID
▶	P003	ONLINE	2023-04-04	DELIVERING	8003	C003
	P013	ONLINE	2023-04-04	SHIPPING	8013	C013
	P017	ONLINE	2023-04-04	COMPLETED	8017	C017
	P022	ONLINE	2023-04-04	DELIVERING	8008	C022
	P025	ONLINE	2023-04-04	SHIPPING	8002	C025
*	NULL	NULL	NULL	NULL	NULL	NULL

8. Write a query to display all the customer detail where the first name start with the latter R and the email using gmail.

```
SELECT *
FROM CUSTOMER
WHERE CUS_FNAME LIKE 'R%' AND CUS_EMAIL LIKE '%@gmail.com';
```

	CUS_ID	CUS_FNAME	CUS_LNAME	CUS_PHONE	CUS_EMAIL
▶	C009	Raisha Izzara	Mohd Razi	156734537	rhzza@gmail.com
	C013	Razilah	Rahman	125561789	rrazilah@gmail.com
	C014	Rashid	Rafael	1155736573	rshiddrf@gmail.com
*	NULL	NULL	NULL	NULL	NULL

9. Display payment number, payment date information from the payment table. Calculate the number of payments after 1 march 2023. Sort the result in descending order of the payment date.

```
SELECT PAY_NUM, PAY_DATE, COUNT(PAY_NUM)
FROM PAYMENT
WHERE PAY_DATE > "2023-03-01"
GROUP BY PAY_NUM
ORDER BY PAY_DATE DESC;
```



	PAY_NUM	PAY_DATE	COUNT(PAY_NUM)
▶	1039	2024-02-11	1
	1037	2024-01-09	1
	1038	2024-01-09	1
	1029	2023-12-07	1
	1011	2023-11-18	1
	1031	2023-10-09	1
	1012	2023-09-12	1
	1010	2023-09-09	1
	1002	2023-07-18	1
	1016	2023-07-06	1
	1018	2023-07-06	1
	1023	2023-05-09	1
	1020	2023-05-05	1
	1021	2023-04-08	1
	1003	2023-04-04	1
	1013	2023-04-04	1
	1017	2023-04-04	1
	1022	2023-04-04	1
	1025	2023-04-04	1
	1007	2023-03-20	1
	1005	2023-03-19	1
	1019	2023-03-19	1
	1015	2023-03-15	1
	1006	2023-03-13	1
	1027	2023-03-07	1
	1008	2023-03-05	1



10. Find how many order the employee get

```
SELECT E.EMP_ID, E.EMP_FNAME, E.EMP_LNAME,
COUNT(O.ORDER_DATE) AS ORDER_COUNT
FROM EMPLOYEE E
JOIN ORDER_CUSTOMER O ON E.EMP_ID = O.EMP_ID
GROUP BY E.EMP_ID, E.EMP_FNAME, E.EMP_LNAME;
```

	EMP_ID	EMP_FNAME	EMP_LNAME	ORDER_COUNT
▶	8001	AISYAH	ASRI	2
	8002	NANA	AZMI	3
	8003	ALIA	FAIZAL	3
	8004	NADHIR	NASAR	1
	8005	AEDY	ASHRAF	1
	8006	AMELIA	AZRIL	2
	8007	ILYA	NABIL	2
	8008	FARISHA	ADNI	2
	8009	ELYA	AZMI	2
	8010	ARISSA	NASIE	1
	8011	AZRIN	ABDUL	1
	8012	AIRIL	SHAFIQ	1
	8013	LALA	ADLI	1
	8014	AZRIL	AMRI	0
	8015	AYRA	KIMI	4
	8016	NAUFAL	AFIQ	1
	8017	AIMAN	AMIN	1
	8018	AZURA	HAKIMI	1
	8019	HAFIZA	RAHIM	1
	8020	NADDY	RUSDY	2

11. Total profit they get in one year 2023

```
SELECT SUM(J.JER_PRICE * OD.QUANTITY) AS 'TOTAL SALES AMOUNT'
FROM JERSEY J
JOIN ORDER_DETAIL OD ON J.JER_NUM = OD.JER_NUM
JOIN ORDER_CUSTOMER OC ON OC.ORDER_ID = OD.ORDER_ID
JOIN PAYMENT P ON OC.ORDER_ID = P.ORDER_ID
WHERE YEAR(P.PAY_DATE) = 2023;
```



	TOTAL SALES AMOUNT
▶	27328.00

12. Write a query that displays the customer id, first name, last name, order id and payment number.

```
SELECT C.CUS_ID, C.CUS_FNAME, C.CUS_LNAME, O.ORDER_ID,  
O.ORDER_TYPE, P.PAY_NUM  
FROM CUSTOMER C  
JOIN ORDER_CUSTOMER O ON C.CUS_ID = O.CUS_ID  
JOIN PAYMENT P ON O.ORDER_ID = P.ORDER_ID;
```

	CUS_ID	CUS_FNAME	CUS_LNAME	ORDER_ID	ORDER_TYPE	PAY_NUM
▶	C001	Amierul	Hafzie	P001	NULL	1001
	C002	Hanif Aziz	Shaukie	P002	ONLINE	1002
	C003	Zapphiera Amni	Aming	P003	ONLINE	1003
	C003	Zapphiera Amni	Aming	P036	NULL	1036
	C004	Fairuz	Najmel	P004	NULL	1004
	C005	Farhana	Syabill	P005	ONLINE	1005
	C006	Nilam Saffira	Safawi	P006	ONLINE	1006
	C007	Sharippudin	Salmani	P007	ONLINE	1007
	C007	Sharippudin	Salmani	P035	ONLINE	1035
	C008	Bashira Nabihah	Badrul	P008	ONLINE	1008
	C009	Raisha Izzara	Mohd Razi	P009	NULL	1009
	C010	Ghazali Rabbani	Awang	P010	ONLINE	1010
	C010	Ghazali Rabbani	Awang	P033	ONLINE	1033
	C010	Ghazali Rabbani	Awang	P034	ONLINE	1034
	C010	Ghazali Rabbani	Awang	P037	ONLINE	1037
	C010	Ghazali Rabbani	Awang	P038	ONLINE	1038
	C011	Yusuff Al-Qara...	Abu Bakar	P011	ONLINE	1011



C012	Nurliyana Hanisah	Mohammad...	P012	ONLINE	1012
C013	Razilah	Rahman	P013	ONLINE	1013
C014	Rashid	Rafael	P014	NULL	1014
C015	Nik Maryam	Nik Razmani	P015	ONLINE	1015
C016	Jauhar Nafis	Mohd Azmir	P016	ONLINE	1016
C017	Qasrina Irdina	Idriss	P017	ONLINE	1017
C018	Iffah Nadhirah	Zafrul Hadi	P018	ONLINE	1018
C019	Luqman Hakimie	Mohd Hazrie	P019	ONLINE	1019
C020	Aliff Najmee	Irfan Haris	P020	ONLINE	1020
C021	Darren Kairiel	Mohd Zulkiflie	P021	ONLINE	1021
C021	Darren Kairiel	Mohd Zulkiflie	P032	ONLINE	1032
C022	Qhairulnissa	Rashidi Hamid	P022	ONLINE	1022
C022	Qhairulnissa	Rashidi Hamid	P039	ONLINE	1039
C023	Masturina	Mansor	P023	ONLINE	1023
C023	Masturina	Mansor	P040	NULL	1040
C024	Syabil Safawi	Ahmad Salim	P024	ONLINE	1024
C025	Sajastanah	Imam Koneng	P025	ONLINE	1025
C026	Yogarashini	Gopal	P026	ONLINE	1026
C027	Hup Yup	Seng	P027	ONLINE	1027
C028	Emelio Lika	Nadem	P028	NULL	1028
C029	Naiema	Bakar	P029	ONLINE	1029
C030	Ahmad Mursyid...	Jamaluddin	P030	NULL	1030
C031	Luisa	Benjamin	P031	ONLINE	1031

13. Write a query that displays order id, order type, order date, order status, customer id, first name, last name and the employee id that in charge is 8003.

```
SELECT O.ORDER_ID, O.ORDER_TYPE, O.ORDER_DATE, O.ORDER_STATUS,
C.CUS_ID, C.CUS_FNAME, C.CUS_LNAME, E.EMP_ID
FROM ORDER_CUSTOMER O
JOIN CUSTOMER C ON O.CUS_ID = C.CUS_ID
JOIN EMPLOYEE E ON O.EMP_ID = E.EMP_ID
WHERE E.EMP_ID = 8003;
```

	ORDER_ID	ORDER_TYPE	ORDER_DATE	ORDER_STATUS	CUS_ID	CUS_FNAME	CUS_LNAME	EMP_ID
▶	P003	ONLINE	2023-04-04	DELIVERING	C003	Zapphiera Amni	Aming	8003
	P019	ONLINE	2023-03-19	SHIPPING	C019	Luqman Hakimie	Mohd Hazrie	8003
	P033	ONLINE	2022-10-16	COMPLETE	C010	Ghazali Rabbani	Awang	8003

14. Which employees are assigned for order P018? list employee id, first name, last name. order the list by employee number.



```
SELECT E.EMP_ID, E.EMP_FNAME, E.EMP_LNAME, A.ORDER_ID
FROM EMPLOYEE E
JOIN ORDER_CUSTOMER A ON E.EMP_ID = A.EMP_ID
WHERE A.ORDER_ID = 'P018'
ORDER BY E.EMP_ID;
```

	EMP_ID	EMP_FNAME	EMP_LNAME	ORDER_ID
▶	8007	ILYA	NABIL	P018

15. Write a query where the quantity is more than 20.

```
SELECT *
FROM ORDER_DETAIL
WHERE QUANTITY > 20;
```

	ORDER_ID	JER_NUM	QUANTITY
▶	P009	7009	67
	P015	7015	86
	P023	7023	32
	P025	7025	54
	P031	7031	87
	P035	7019	23
	P037	7004	64
	P040	7004	32
*	NULL	NULL	NULL

16. Displays employees id, last name, first name and employee division who has the word 'FINANCE' in its name.

```
SELECT EMP_ID, EMP_LNAME, EMP_FNAME , EMP_DIVISION
FROM EMPLOYEE
WHERE EMP_ID IN (SELECT EMP_ID FROM EMPLOYEE WHERE
EMP_DIVISION LIKE '%FINANCE%');
```

	EMP_ID	EMP_LNAME	EMP_FNAME	EMP_DIVISION
▶	8001	ASRI	AISYAH	FINANCE
	8002	AZMI	NANA	FINANCE
	8017	AMIN	AIMAN	FINANCE
*	NULL	NULL	NULL	NULL



17. Retrieving information about orders and payments within a specific date range (March 1, 2023, to March 31, 2023) where the payment status is 'SUCCESS'.

```
SELECT O.ORDER_ID, O.ORDER_TYPE, P.PAY_TYPE,
SUM(P.PAY_TOTAL) AS TOTAL_AMOUNT_PAID, P.PAY_STATUS
FROM ORDER_CUSTOMER O JOIN PAYMENT P
ON O.ORDER_ID = P.ORDER_ID
WHERE P.PAY_DATE BETWEEN '2023-03-01' AND '2023-03-31'
GROUP BY O.ORDER_ID, O.ORDER_TYPE, P.PAY_TYPE, P.PAY_STATUS
HAVING P.PAY_STATUS = 'SUCCESS';
```

	ORDER_ID	ORDER_TYPE	PAY_TYPE	TOTAL_AMOUNT_PAID	PAY_STATUS
▶	P005	ONLINE	CRDT/DBT	160.00	SUCCESS
	P006	ONLINE	WEB BNKING	225.00	SUCCESS
	P007	ONLINE	CRDT/DBT	65.00	SUCCESS
	P008	ONLINE	WEB BNKING	177.00	SUCCESS
	P015	ONLINE	CRDT/DBT	6880.00	SUCCESS
	P019	ONLINE	CRDT/DBT	525.00	SUCCESS
	P027	ONLINE	CRDT/DBT	300.00	SUCCESS

18. Find total number of orders placed by each employee.

```
SELECT E.EMP_ID, E.EMP_FNAME, E.EMP_LNAME,
COUNT(O.ORDER_ID) AS TOTAL_ORDERPLACED
FROM EMPLOYEE E JOIN ORDER_CUSTOMER O
ON E.EMP_ID = O.EMP_ID
WHERE E.EMP_ID IN (SELECT DISTINCT EMP_ID FROM ORDER_CUSTOMER)
GROUP BY E.EMP_ID, E.EMP_FNAME, E.EMP_LNAME;
```



	EMP_ID	EMP_FNAME	EMP_LNAME	TOTAL_ORDERPLACED
▶	8001	AISYAH	ASRI	3
	8002	NANA	AZMI	4
	8003	ALIA	FAIZAL	3
	8004	NADHIR	NASAR	4
	8005	AEDY	ASHRAF	1
	8006	AMELIA	AZRIL	2
	8007	ILYA	NABIL	2
	8008	FARISHA	ADNI	2
	8009	ELYA	AZMI	3
	8010	ARISSA	NASIE	1
	8011	AZRIN	ABDUL	1
	8012	AIRIL	SHAFIQ	1
	8013	LALA	ADLI	1
	8014	AZRIL	AMRI	1
	8015	AYRA	KIMI	4
	8016	NAUFAL	AFIQ	1
	8017	AIMAN	AMIN	1
	8018	AZURA	HAKIMI	1
	8019	HAFIZA	RAHIM	1
	8020	NADDY	RUSDY	3



11 Conclusion

The research we performed has led us to the conclusion that the Hisprike company's everyday business operations have been made easier by the adoption of the built database system. Because they were still utilising the manual file system, the staff at Hisprike had difficulty recording all of the data prior to this. Data are now redundant and inconsistent as a result of the circumstances. The problems with this designed system are resolved with SQL commands like data manipulation language (DML) and data definition language (DDL). The database system's design has also improved user-data interaction. This suggests that better data management might be implemented to improve user experience and synchronisation. By prioritizing clarity in the company's structure, streamlining the way orders are managed, maintaining a keen eye on financial transactions, and enhancing the efficiency of customer service, the system efforts to introduce in a comprehensive transformation in how the company operates. This led to the company running more efficiently and has the potential to elevate the Hipstrike brand to a higher tier within the apparel market. As a result, it can maximise the company's revenue.



12 References

1. Hipstrike Exclusive Company platform:
<https://linktr.ee/HipstrikeApparel?fbclid=PAAsakplbLxkZWodSlbxLnhUSciyWO2TRj8Gzi0OkIII-bDPY5354fXnbima0>

2. Website

Richard Peterson, (2023) GURU999, *Entity Relationship (ER) Diagram Model with DBMS Example*, from <https://www.guru99.com/er-diagram-tutorial-dbms.html>



13 Appendices

1. Hipstrike Merdeka Edition



2. Hipstrike UiTM Edition



3. Hipstrike Selangor Edition



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4.Zealous Edition

