

INFORMATION TECHNOLOGY AND DATABASE DESIGN

SMIFF CELL PHONE



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PREFACE

First of all, the writer wants to express our thanks to God, because of His bless and grace, the paper entitled "SMIFF CELL PHONE" can be finished on time.

This paper is a requirement to fulfil the assignment from Mrs. Verni Juita. . SE M.Com (Adv), Akt, The lecturer of Information Technology and Database Design in Accounting Departement of Andalas University. The writer also thanks to her for all the guidance to complete it.

In completing this paper, the writer faced many problems, but with the help of many people, all the problems could be passed. May God give the blessing for them. This report provides the intrinsic elements in “SMIFF CELL PHONE“ with detail explanation. Although this paper has many flaws in the arrangement and explanation, we as the writer hope that it can be used as a reference for the reader to understand the intrinsic elements of a short story.

Padang, December 5th 2022

The Writer

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CHAPTER I

INTRODUCTION

1.1 Background of The Paper

The development of the world sometimes has a positive effect on human progress itself, especially in the field of communication. Today, communication technology is increasingly developing and advancing, various communication tools with advanced technology have been widely used by various groups of people. Mobile phones or better known as HP (handphone) are one of the communication tools that are being favored by many people. At first, the use of mobile phones was only by certain people who had the ability to buy them, bearing in mind that at that time the price of mobile phones was still very expensive. But now, wherever we are, we can easily find people who have cellphones and that is a common sight. Over time, cellphones are not only used as a communication tool, but also as a multimedia like a small computer which is often referred to as a smartphone. Smartphones have a special appeal in all circles, both from children, teenagers, and parents. Smartphones are the right solution for communication in this era because of sophisticated technology, not a few people often change their smartphones because they want better facilities to keep up with the times, and the number of cellphone users is increasing from year to year. Producer big handphone phones such as Samsung, Nokia, Xiaomi, Sony, Oppo, Iphone and others are competing improve the quality of each product in order to attract consumer interest. In this condition the business opportunities related to handphone are very wide open and promising, in this opportunity the author tries to open a counter business handphone by the name “SMIFF CELL PHONE”.

“SMIFF CELL PHONE” is a counter business handphone that serves the purchase of handphone, tablet, electronic watch, and other similiar items which will be explained in the next chapter. “SMIFF CELL PHONE” is a company built by four people. “SMIFF CELL PHONE” was founded in October 2021th. At the beginning of pioneering, “SMIFF CELL PHONE” had its address at Rohana kudas street No 3. Then in October 2022th “SMIFF CELL PHONE” moved to Minangkabau street No 5 with the reason that it is more easily accessible to consumers throughout the city of Bukittinggi. “SMIFF CELL PHONE” is open every day from 10.00 to 22.00 western Indonesian time.

The problem that occurs with “SMIFF CELL PHONE” is the recording of notes that are still being received handwritten so note-taking is less effective and efficient. The three incoming and outgoing consumer data do not yet exist, and can only be checked consumer data from notes so that consumer data is still in process or has been completed processing cannot be recognized by “SMIFF CELL PHONE”. Finally the results of the damage diagnosis are not came out at that time because the damage check was carried out carefully so that the results the diagnosis of damage is right, so consumers have to come another day to ask go straight to the service center so you can find out information on cellphone damage.

Therefore the author makes database. The database is used to collect the data that is managed based on certain interrelated provisions so that it is easy to process. “SMIFF CELL PHONE” parties can be seen through the database of goods that are still processed or has been processed by checking the goods out and the goods that are still processed.

1.2 Problem Identification

The problem identification of the article is

How to apply database system on “SMIFF CELL PHONE”

1.3 Purpose

Purpose of writing this article is :

- 1) To make “SMIFF CELL PHONE” easier in running a business
- 2) Creating database application for helping the “SMIFF CELL PHONE”
- 3) Making the “SMIFF CELL PHONE” more bigger business scale

1.4 Problem Limitation

The problem limitation that will be identified is :

- 1) Using Microsoft Access to process the data.
- 2) Involve relationship, query, form, and report as a basis.

CHAPTER II

THEORITICAL UNDERSTANDING

2.1 Definition of Database

Data is an uncooked and unorganized truth, this is required to be processed to make it meaningful. Data may be easy on the identical time unorganized until it's far organized. Generally, statistics contains facts, observations, perceptions, numbers, characters, symbols, images, etc.

A database is a systematic or organized collection of related information stored so that it can be easily accessed, searched, managed, and updated. All data is stored here. It's like a library with a lot of books in different genres.

2.2 Database Management System (DBMS)

2.2.1 Definition of Database Management System (DBMS)

A database management system, or DBMS for short, is software designed to manage very large amounts of data. DBMS is also designed to manipulate data more easily. Data storage in the form of a database has many advantages over data storage in the form of a flat file, including better performance, integrity, independence, centralization and security.

2.2.2 Purpose of Database Management System (DBMS)

The following are some of the purposes for which a DBMS is used :

1. So that the database can be used together.
2. To make the data access process easier and faster.
3. Irritating data storage space.
4. Help maintain data security.
5. Prevent and eliminate data duplication and inconsistency.
6. The high amount of data is large.

2.2.3 Types of Database Management System (DBMS)

In its application, there are several types of DBMS software that are often applied to manage company databases, namely among others:

1. MySQL

The first DBMS software is MySQL, which is widely used because it is available free of charge. So this application is suitable for growing businesses.

2. Oracle

This device has a wide range of features that can meet the flexibility demands of large enterprises. Even this device also has transaction processing with very high performance. But unfortunately this application is paid (not free).

3. Microsoft SQL Server

Microsoft SQL Server has a good data security system and features back up, recovery and data rollback. This DBMS software is also suitable for application in large company computer network systems because it has the ability to manage large data.

4. Firebird

Firebird offers features that comply with SQL-2003 and ANSI SQL-99 standards and can work on Windows and Linux OS.

2.3 Definition of Primary key, Relationship, Table, Form, Query, and Report

2.3.1 Primary Key

A primary key, also known as a primary keyword, is a key in a relational database that is unique to each record.

2.3.2 Relationship

Relationships are diagrams that connect information between tables. This helps avoid redundant information and ensures information consistency across tables. Relationships also help users create reports. One-to-one relationships are the most common.

2.3.3 Table

A table is a central database object. It consists of fields (columns) and rows. Their purpose is to store information. The purpose of all other database objects is to interact in some way with one or more tables.

2.3.4 Form

Forms allow users to easily enter, retrieve, view, and print information stored in spreadsheets. A form is basically a window in which controls can be placed to provide information to the user or to accept information entered by the user. You can view forms in Form view, Datasheet view, or Design view.

2.3.5 Query

You can search for specific information stored in one or more tables by building a query that specifies the parameters of the information to search for.

2.3.6 Report

Information recorded in a spreadsheet can be viewed on a computer screen or on paper in a well-formatted, easily accessible report. Reports can contain information items selected from multiple tables and queries, values calculated from information in a database, and formatting items such as headers, footers, titles, and headings.

2.4 Business Profile



SMIFF CELL PHONE

“ SMIFF CELL PHONE “, a business that provides goods and services.

Items sold include mobile phones, tablets, smart watch, and accessories. Services offered in the form of repair of cellphones, tablets, and smartwatch.

Address :

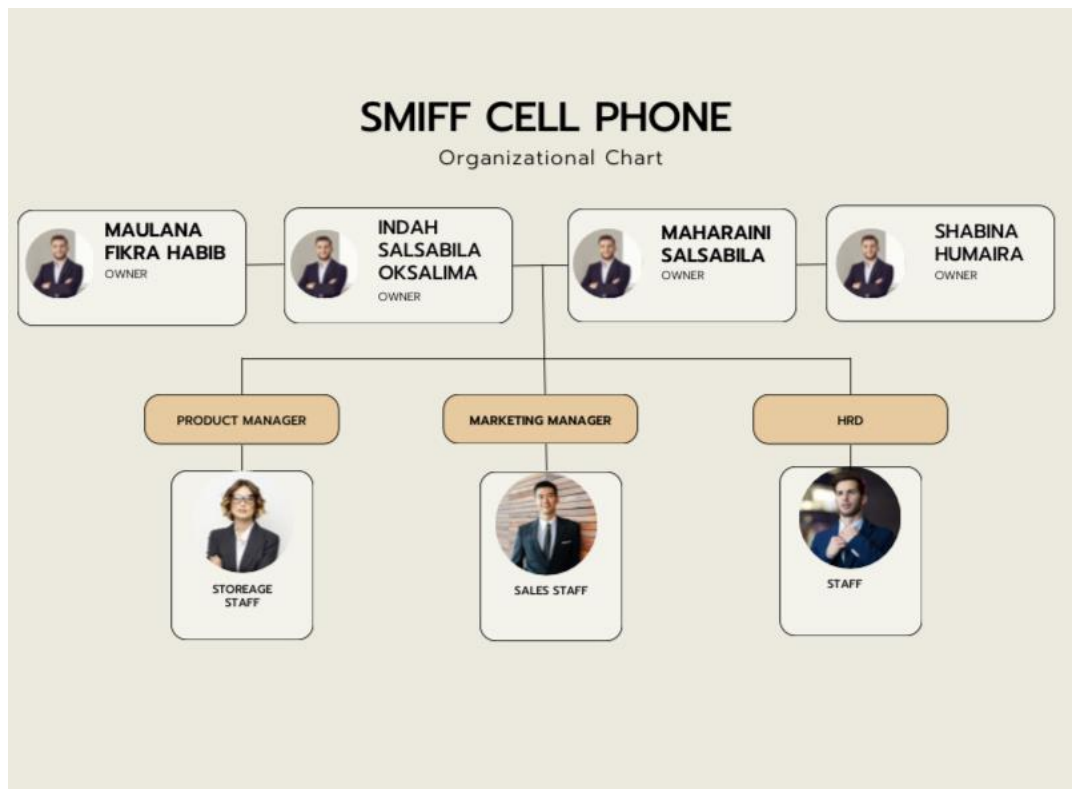
Since :

☎ : (+62) 875889042

✉ : smiffgadget@gmail.com

🌐 : <https://smiffgadget.co.id>

2.5 Business Structure



2.6 Business Activity

- Provide the best service to our customers
- Trade goods that are guaranteed quality and authenticity
- Ensure that the items sold are sealed before they reach the buyer
- Pick up or purchase goods from trusted suppliers

CHAPTER III EXPLANATION

The following are things that are needed in Access to create a database of “SMIFF CELL PHONE” :

3.1 Table

1) Table of Costumers

No	Customers_Id	Name	Gender	Address	BoD	Phone_Number	Email	Click to Add
1	22001	Ahmad Santoso	M	Bumi Asri Regency, No.14	22/01/1984	085432561998	ahmadsantoso@gmail.com	
2	22002	Alika Islamadina	F	Bamboo Regency, No.12	19/04/1998	087572283727	alikaislamadina@gmail.com	
3	22003	Arin Zulaikha	F	Supomo St, No. 11	31/03/1999	081325562717	arinzulaikha99@gmail.com	
4	22004	Dion Hidayat	M	Brigjen Dharsono St, No. 09	04/11/2000	082322818391	dionhidayat00@gmail.com	
5	22005	Fahmi Nasrullah	M	Hatta St, No.13	05/05/1997	085167281218	fahminasrullah@gmail.com	
6	22006	Gavy Ramadhan	M	Griya Indah Regency, No.30	09/08/2000	089172872929	gavyramadhan00@gmail.co	
7	22007	Dion Malik Purnama	M	Supomo St, No. 02	10/07/1999	081452722621	dionmalik@gmail.com	
8	22008	Ajeng Rahayu	F	Griya Indah Regency, No.11	16/10/2001	087673718035	ajengrahayu@gmail.com	
9	22009	Cantika Pitaloka	F	Bamboo Regency, No.23	11/02/2002	085162825627	cantikapitaloka@gmail.com	
10	22010	Yura Angelia	F	Sudirman St, No.14	07/07/2003	085187282022	yuraangel@gmail.com	
11	22011	Satrio Darmawan	M	Bulan St, No.06	09/12/1997	089278378394	satriodarmawan@gmail.com	
12	22012	Putra Bakti Wangsa	M	Bumi Asri Regency, No.07	03/03/2000	083426731831	putrawangsa@gmail.com	
13	22013	Uti Zakkiyah	F	Madani Regency, No.17	09/02/1999	087163731570	utizakkiyah@gmail.com	
14	22014	Arum Fauziyyah	F	Rasuna Said St, No.07	08/04/2001	089173723456	arumzakkiyah@gmail.com	
15	22015	Dito Arkan	M	Tirta Ayu Regency, No.11	18/10/2001	081268625162	dittoarkan@gmail.com	
16	22016	Kiki Pramono	M	Bulan St, No.03	17/05/1994	085272528297	kikipramono@gmail.com	
17	22017	Azalea Annastasya	F	Hatta St, No.04	06/06/2004	089134567218	azaleaannastasya@gmail.co	
18	22018	Putri Utami	F	Griya Asri Regency, No.18	25/01/2001	087456281765	putriutami@gmail.com	
19	22019	Oktaharun	M	Taruma Regency, No.22	26/09/1995	082345617821	oktaharun@gmail.com	
20	22020	Zhafran Rahman	M	Hijau Regency, No.12	24/06/1997	083245671651	zhafran@gmail.com	
21	22021	Harun Ramadhan	M	Sudirman St, No.04	08/10/2000	085885676291	harunramadhan@gmail.com	
22	22022	Rara natarina	F	Supomo St, No.07	09/05/1995	087665151813	rara_rina@gmail.com	
23	22023	Ega Anandhia	M	Hilir St, No.11	13/02/2000	089167151252	eganandhia@gmail.com	

We create this table to collect data from each costumers which serves to clarify sales data to make it easier to record and bookkeeping. In the table of customers, we need information of customer id, customer name, customer gender, customer address, birthday of customer, customer phone number, and customer email. Like BoD field, it can help us to know about customer birthday which later the data is used to make claims on discounts determined by the company.

2) Table of Staff

No	Staff_Id	Staff_Name	Gender	BoD	Position	Phone_Num	Email	Address	Work_Since	Click to Add
1	220001	Adek Sri Wahyun F	F	01/06/1998	Product Manag	88367366370	adeksri@gmail	Taruma Regent	7-10-2022	
2	220002	Farel Abiyyu Fayy M	M	13/09/1998	Marketing Man	87567287916	farelfayyadh@	Merdeka Raya	7-10-2022	
3	220003	Raisya Fatia Indri F	F	05/07/1995	HRD	85656367236	raisyafatiaind@	Taruma Regent	7-10-2022	
4	220101	Della Azizah F	F	21/03/1999	Shopkeeper	82331478863	dellaazizah01@	Pamengkang re	10-10-2022	
5	220102	Rahma Yona Mai F	F	01/11/1998	Shopkeeper	85277645809	yonamarsaa5@	Utama St, No.1	10-10-2022	
6	220103	Tessa Putri Fahiri F	F	22/08/1999	Shopkeeper	83875411223	tessafahira@gr	Merapi St, No.6	10-10-2022	
7	220201	Orva Linnissa F	F	13/08/2000	Storage	81268987654	linnissaorva2@	Kalawi St, No.1	10-10-2022	
8	220202	Imam Azra M	M	03/09/1999	Storage	81362063279	imamaazra@gr	Sekar Kemunin	3-12-2022	
9	220203	Sultan Ihsan M	M	08/02/1998	Storage	81271807288	ihsn81@gmail.	Griya Indah Rej	10-10-2022	
10	220301	Shafira Hafiz F	F	13/08/2000	Sales	85372614554	shafirahafiz@g	Griya Asri Rege	10-10-2022	
11	220302	Rini Nurzayni F	F	15/12/1997	Sales	81268633703	rini06@gmail.c	Bulan St, No.16	30-10-2022	
12	220303	Nisrina Azzahra F	F	11/11/2000	Sales	85302617795	azzahra01@gr	Rasuna Said St,	10-10-2022	
13	220304	Raihan Desda M	M	05/10/1998	Sales	82372734651	raihandesda@	Rohana Kudus	30-10-2022	
14	220305	Audrey Odellia F	F	20/01/2001	Sales	81261602288	audreyvryy@gr	Griya Indah, Nc	10-10-2022	
15	220306	Mutia Intan Perm F	F	23/07/2001	Sales	81271176996	intan07@gmail	Madani regenc	10-10-2022	
(New)										

We create this table to collect data from each staff. In this table, we need information about staff id, staff name, gender of each staff, birthday of each staff, staff position, staff phone number, staff email, staff address, and when staff start working. Like phone number field, it can help us to know about staff phone number if there is an error in the sales transaction.

3) Table of Products

No	Product_ID	Product_Name	Product_Bra	Product_Typ	Product_Gui	RAM/ROM	Quantity_Av	Purchase_Pr	Selling_Price	Guarantee
1	SM-A101	Samsung A035	Samsung	Handphone	12 Months	3/32 GB	10	Rp1.159.200	Rp1.449.000	Guarantee
2	SM-A102	Samsung A01	Samsung	Handphone	12 Months	2/16 GB	12	Rp1.188.000	Rp1.485.000	
3	SM-T103	Galaxy Tab A8	Samsung	Tab	12 Months	4/128 GB	4	Rp3.679.200	Rp4.599.000	
4	SM-T104	Galaxy Tab S6 Lite	Samsung	Tab	12 Months	4/128 GB	2	Rp5.039.200	Rp6.299.000	
5	SM-M105	Samsung M20	Samsung	Handphone	12 Months	3/32 GB	6	Rp1.200.000	Rp1.500.000	
6	VV-V106	Vivo Y35	Vivo	Handphone	12 Months	8/128 GB	9	Rp2.719.200	Rp3.399.000	
7	VV-V107	Vivo V7	Vivo	Handphone	12 Months	8/128GB	5	Rp3.104.000	Rp3.880.000	
8	VV-V108	Vivo PAD SNAPDRAGON	Vivo	Tab	12 Months	8/128 GB	2	Rp6.390.400	Rp7.988.000	
9	VV-V109	Vivo Y15	Vivo	Handphone	12 Months	4/64 GB	5	Rp1.919.200	Rp2.399.000	
10	VV-V110	Vivo Y83	Vivo	Handphone	12 Months	4/32 GB	7	Rp2.239.200	Rp2.799.000	
11	PP-F111	Oppo F1	Oppo	Handphone	12 Months	3/32 GB	6	Rp1.280.000	Rp1.600.000	
12	PP-F112	Oppo F3	Oppo	Handphone	12 Months	4/64 GB	7	Rp3.199.200	Rp3.999.000	
13	PP-F113	Oppo F15	Oppo	Handphone	12 Months	8/128 GB	8	Rp1.600.000	Rp2.000.000	
14	PP-F114	Oppo F7	Oppo	Handphone	12 Months	4/64 GB	5	Rp2.160.000	Rp2.700.000	
15	PP-A115	Oppo A1K	Oppo	Handphone	12 Months	2/32 GB	7	Rp1.359.200	Rp1.699.000	
16	AZ-M116	Zenfone MAX	Asus	Handphone	12 Months	3/32 GB	8	Rp1.320.000	Rp1.650.000	
17	AZ-M117	Zenfone MAX M1	Asus	Handphone	12 Months	3/32 GB	9	Rp1.440.000	Rp1.800.000	
18	AZ-M118	Zenfone MAX PRO	Asus	Handphone	12 Months	4/64 GB	6	Rp1.999.200	Rp2.499.000	
19	AZ-S119	Zenfone SELFIE	Asus	Handphone	12 Months	3/32 GB	7	Rp1.359.200	Rp1.699.000	
20	RM-C120	Realme C1	Realme	Handphone	12 Months	2/16 GB	8	Rp1.183.200	Rp1.479.000	
21	RM-C121	Realme C2	Realme	Handphone	12 Months	3/32 GB	7	Rp1.119.200	Rp1.399.000	
23	RI-W132	Redmi Watch 2 Lite	Xiaomi	Smart Watch	12 Months	-	3	Rp639.200	Rp799.000	
24	RI-W133	Redmi A1	Xiaomi	Handphone	12 Months	3/32 GB	5	Rp919.200	Rp1.149.000	

This table is used to collect data about what products are provided by the company and the amount of each product. In this table, we need information about product id, product name, product brand, product type, product guarantee, RAM/ROM of product, quantity of product, Purchase of product, and selling price of product. Like product id, it's really important because that can make staff easier to found the brand, type, and series that costumers need.

4) Table of Supplier

Product		Relationships	Supplier	Staff						X
No	Supplier	Firms_Name	Address	Zip_Code	City/District	Province	Telephone_Number	Website		
1 Supp-1	PT. Samsung Electronic Indonesia	Jl. Jababeka Raya	17530 District Bekasi	West Java	(021) 89837114	www.samsung.com/id				
2 Supp-2	PT. Vivo Mobile Indonesia	JL. Bhumimas VIII	15710 District Tangerang	Banten	(0751)8956211	https://www.vivo.com				
3 Supp-3	PT. SBB OPPO Manufacturing Indonesia	Komplek Benoa M	15112 Tangerang City	Banten	(021)29662888	https://www.oppo.com				
4 Supp-4	PT. Sat Nusapersada Tbk (xiaomi)	Jl Pelita VI No. 99,	29443 Batam City	Riau Island	(0778)5708888	https://satnusa.com				
5 Supp-5	PT. Sony Technology Indonesia	Jl. Jenderal Sudirrn	10210 Jakarta City	Jakarta	(0755)87563321	https://pro.sony.com				
6 Supp-6	PT. Bangsa Teknologi Indonesia (Advan)	Blok 23A, Kawasar	50184 Semarang City	Central Java	(0858)45258302	https://advandigital.com				
7 Supp-7	PT. Karunia Berlian Makmur (Realme)	RT.3/RW.10, Pluit,	14450 Jakarta City	Jakarta	(021)50163688	https://www.realme.co				
8 Supp-8	PT. Doran Sukses Indonesia (Robot)	Jl Lebak Jaya 2 Ter	60134 Surabaya City	West Java	(0819)873000	https://dorangadget.co				
9 Supp-9	PT. Amtek Solusindo (Liquid Crystal Displ	Ketapang indah CI	29845 Jakarta City	Jakarta	(021)78990543	https://mbizmarket.com				
10 Supp-10	PT. Distributor Gadget Indonesia (Asus)	JL KH Moh Mansyi	77514 Jakarta City	Jakarta	(062)33217655	https://ptdgi.co.id				
11 Supp-11	PT. Huawei Tech Investment (Huawei)	Prudential Center,	12870 South Jakarta	Jakarta	(021)22532382	https://cbkn.co.id				
12 Supp-12	PT. Mutiara Katalog Indonesia (LG)	Grand Pasar Ming	12520 South Jakarta	Jakarta	(062)822798905	https://mkatalogoid.co				
13 Supp-13	A1 Accessories (Tempered Glass)	Citypark Business	11730 Jakarta City	Jakarta	(062)834552178	https://www.a1acstore				
14 Supp-14	PT. Virtue Capital Indonesia (Power Bank JI	Letjend Suprapt	10640 Jakarta City	Jakarta	(021)5270985542	https://KedaiLintas.co.id				
15 Supp-15	Taobao (Case)	Jl Bunga Raya Kor	54671 Batam City	Riau Island	(021)2335467190	https://taobao.com				
* (New)		0								

We create this table to collect data from each supplier that is useful when supplying products. In the table of Supplier, we need the information about supplier id, suppliers name, firms name, address, Zip code of firms, City/District of firms, Province of firms, Phone number of firms, and the website. Like number phone, we need to know phone number of firm to enable us to contact our suppliers in the event that the shipment of goods or anything else related to the delivery of goods is prevented.

5) Table of Bank

No	Bank_Code	Bank_Name	Account_Number	Click to Add
1	008	Bank Mandiri	070 00 0187777 3	
2	002	Bank BRI	034 101 000 743 303	
3	014	Bank BCA	6860 1485 77	
4	147	Bank Muamala	301 007 0752	
5	009	Bank BNI	023 827 2088	
6	011	Bank Danamon	0058 3323 70	
7	426	Bank Mega	678 501 028 883 537	
8	013	Bank Permata	971 0078 77	
9	427	Bank Syariah In	928 9288 870	
10	441	Bank Bukopin	100 910 0612	
11	031	Citibank	7310 2525 27	
12	118	Bank Nagari	003 501 016 016 531	
13	022	Bank CIMB Niag	126 00 0711115 5	
14	536	Bank BCA Syari	0011 777711	
15	200	Bank BTN	091 097 8951	
(New)				

Table of bank are used to facilitate the recording of purchases by customers using a debit or credit cards. In this table, we need information about code of each bank, name of the bank, account bank.

6) Table of sales transaction

No	No_Faktur	Date	Customer	Customer_Name	Product_ID	Product_Na	Product_Typ	RAM/ROM	Staff_Id	Staff_Name	Quantity
1	221011-1	11/10/2022	22025	Ali Alamsyah	VV-Y107	Vivo V7	Handphone	8/128GB	220302	Rini Nurzayni	1
2	221104-13	04/11/2022	22001	Ahmad Santoso	AZ-M118	Zenfone Max P	Handphone	8/128 GB	220304	Raihan Desda	1
3	221012-2	12/10/2022	22002	Alika Islamadina	PP-F113	Oppo F15	Handphone	8/128 GB	220304	Raihan Fesda	1
4	221012-3	12/10/2022	22003	Arin Zulaikha	SM-M105	Samsung M20	Handphone	3/32 GB	220305	Audrey Odelia	1
5	221013-4	13/10/2022	22004	Dion Hidayat	RM-C120	Realme C1	Handphone	2/16 GB	220301	Shafira Hafizh	1
6	221015-5	15/10/2022	22005	Fahmi Nasrullah	RM-C120	Realme C1	Handphone	2/16 GB	220306	Mutia Intan Pei	1
7	221016-6	16/10/2022	22006	Gavy Ramadhan	VV-Y109	Vivo Y15	Handphone	4/64 GB	220303	Nisrina Azzahr	1
8	221020-7	20/10/2022	22007	Dion Malik Purnama	AZ-S119	Zenfone Selfie	Handphone	3/32 GB	220301	Shafira Hafizh	1
9	221023-8	23/10/2022	22008	Ajeng Rahayu	PP-F112	Oppo F3	Handphone	4/64 GB	220301	Shafira Hafizh	1
10	221028-9	28/10/2022	22009	Cantika Pitaloka	SM-T103	Galaxy Tab A8	Tablet	4/128 GB	220306	Mutia Intan Pei	1
11	221030-10	30/10/2022	22010	Yura Angelia	VV-P108	Vivo PAD SNAP	Tablet	8/128 GB	220305	Audrey Odelia	1
12	221102-12	02/11/2022	22011	Satrio Darmawan	SY-X136	Sony Xperia XZ	Handphone	4/64 GB	220304	Raihan Desda	1
13	221109-16	09/11/2022	22012	Putra Bakti Wangsa	SM-T104	Galaxy Tab S6	Tablet	4/128 GB	220306	Mutia Intan Pei	1
14	221101-11	01/11/2022	22013	Uti Zakiiyyah	PP-F114	Oppo F7	Handphone	4/64 GB	220302	Rini Nurzayni	1
15	221107-14	07/11/2022	22014	Arum Fauziyyah	PP-F112	Oppo F3	Handphone	4/64 GB	220305	Audrey Odelia	1
16	221107-15	07/11/2022	22015	Dito Arkan	VV-V110	Vivo Y83	Handphone	4/32 GB	220303	Nisrina Azzahr	1
17	221111-18	11/11/2022	22017	Azalea Annastasya	VV-CY107	Case Vivo V7	Accessories	-	220301	Shafira Hafizh	1
18	221111-20	11/11/2022	22019	Okta Harun	AL-CX135	Case Sony Xpei	Accessories	-	220302	Rini Nurzayni	1
19	221111-21	11/11/2022	22020	Zhafran Rahman	RI-W132	Redmi Watch 2	Smart Watch	-	220306	Mutia Intan Pei	1
20	221119-23	19/11/2022	22022	Rara natarina	AZ-M116	Zenfone Max	Handphone	3/32 GB	220305	Audrey Odelia	1
21	221125-24	25/11/2022	22023	Ega Anandhia	VV-P108	Vivo PAD SNAP	Tablet	8/128 GB	220306	Mutia Intan Pei	1
22	221201-25	01/12/2022	22024	Nata Valentina	VV-Y107	Vivo V7	Handphone	8/128GB	220303	Nisrina Azzahr	1
(New)											0

This is one of two connector table that we have. We create this table to collect transaction data that occurs in the company. The data in this table include number of factur, date of the transaction, customers id, customer name, product id, product name, product type, RAM/ROM of the product, staff id, staff name, quantity, price per quantity, total, payment method, bank code, bank name, warranty activation, and warranty period.

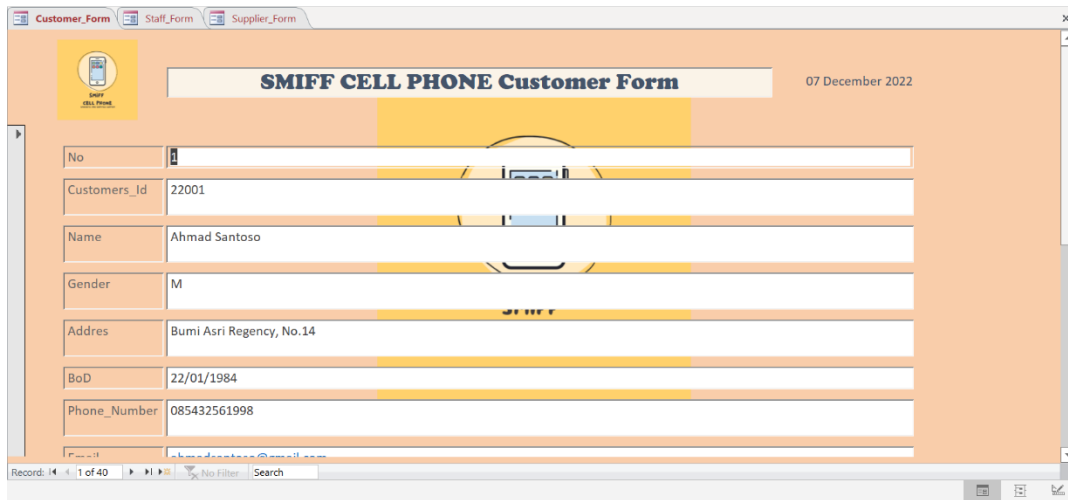
7) Table of Purchase

No	Date	No Faktur	Product Code	Products Type	Products Name	RAM/ROM	Supplier I	Supplier Name	Quan	Purchase Pr	Td
1	07/08/2022	070822-1	SM-A101	Handphone	Samsung A035	3/32 GB	Supp-1	PT. Samsung Electronic I	10	Rp1.200.000	Rp12
2	07/08/2022	070822-2	SM-A102	Handphone	Samsung A01	2/16 GB	Supp-1	PT. Samsung Electronic I	12	Rp1.300.000	Rp15
3	07/08/2022	070822-3	SM-T103	Tab	Galaxy Tab A8	4/128 GB	Supp-1	PT. Samsung Electronic I	4	Rp4.400.000	Rp17
4	07/08/2022	070822-4	SM-T104	Tab	Galaxy Tab S6 Lite	4/128 GB	Supp-1	PT. Samsung Electronic I	2	Rp6.000.000	Rp17
5	07/08/2022	070822-5	SM-M105	Handphone	Samsung M20	3/32 GB	Supp-1	PT. Samsung Electronic I	6	Rp1.300.000	Rp7
6	08/08/2022	080822-6	VV-Y106	Handphone	Vivo Y35	8/128 GB	Supp-2	PT. Vivo Mobile Indones	9	Rp3.099.000	Rp27
7	08/08/2022	080822-7	VV-Y107	Handphone	Vivo V7	8/128GB	Supp-2	PT. Vivo Mobile Indones	5	Rp3.500.000	Rp17
8	08/08/2022	080822-8	VV-P108	Tab	Vivo PAD SNAPDRAGON	8/128 GB	Supp-2	PT. Vivo Mobile Indones	2	Rp7.700.000	Rp15
9	08/08/2022	080822-9	VV-Y109	Handphone	Vivo Y15	4/64 GB	Supp-2	PT. Vivo Mobile Indones	5	Rp2.199.000	Rp10
10	08/08/2022	080822-10	VV-V110	Handphone	Vivo Y83	4/32 GB	Supp-2	PT. Vivo Mobile Indones	7	Rp2.500.000	Rp17
11	10/08/2022	100822-11	PP-F111	Handphone	Oppo F1	3/32 GB	Supp-3	PT. SBB OPPO Manufact	6	Rp1.400.000	Rp8
12	10/08/2022	100822-12	PP-F112	Handphone	Oppo F3	4/64 GB	Supp-3	PT. SBB OPPO Manufact	7	Rp2.500.000	Rp17
13	10/08/2022	100822-13	PP-F113	Handphone	Oppo F15	8/128 GB	Supp-3	PT. SBB OPPO Manufact	8	Rp1.800.000	Rp14
14	10/08/2022	100822-14	PP-F114	Handphone	Oppo F7	4/64 GB	Supp-3	PT. SBB OPPO Manufact	5	Rp3.500.000	Rp17
15	10/08/2022	100822-15	PP-A115	Handphone	Oppo A1K	2/32 GB	Supp-3	PT. SBB OPPO Manufact	7	Rp1.400.000	Rp9
16	13/08/2022	130822-16	AZ-M116	Handphone	Zenfone MAX	3/32 GB	Supp-10	PT. Distributor Gadget Ir	8	Rp1.400.000	Rp11
17	13/08/2022	130822-17	AZ-M117	Handphone	Zenfone MAX M1	3/32 GB	Supp-10	PT. Distributor Gadget Ir	9	Rp1.500.000	Rp13
18	13/08/2022	130822-18	AZ-M118	Handphone	Zenfone MAX PRO	4/64 GB	Supp-10	PT. Distributor Gadget Ir	6	Rp2.200.000	Rp13
19	13/08/2022	130822-19	AZ-S119	Handphone	Zenfone SELFIE	3/32 GB	Supp-10	PT. Distributor Gadget Ir	7	Rp1.500.000	Rp10
20	14/08/2022	140822-20	RM-C120	Handphone	Realme C1	2/16 GB	Supp-7	PT. Karunia Berlian Mak	8	Rp1.200.000	Rp9
21	14/08/2022	140822-21	RM-C121	Handphone	Realme C2	3/32 GB	Supp-7	PT. Karunia Berlian Mak	7	Rp1.100.000	Rp9
22	07/08/2022	070822-22	SM-LA122	Service	LCD Samsung A035	-	Supp-9	PT. Amtek Solusindo (Lic	15	Rp330.000	Rp4
23	07/08/2022	070822-23	SM-BM123	Service	Battery Samsung M20	-	Supp-9	PT. Amtek Solusindo (Lic	16	Rp220.000	Rp3

This two of two connector table that we have. We create this table to to collect data on purchases of products by companies. The data in this table include date of purchase, number of factur, product code, product type, product name, RAM/ROM of the product, supplier of the product, supplier name, quantity, price per purchase, total, staff id, and staff name.

3.2 Form

1) Form of Costumers



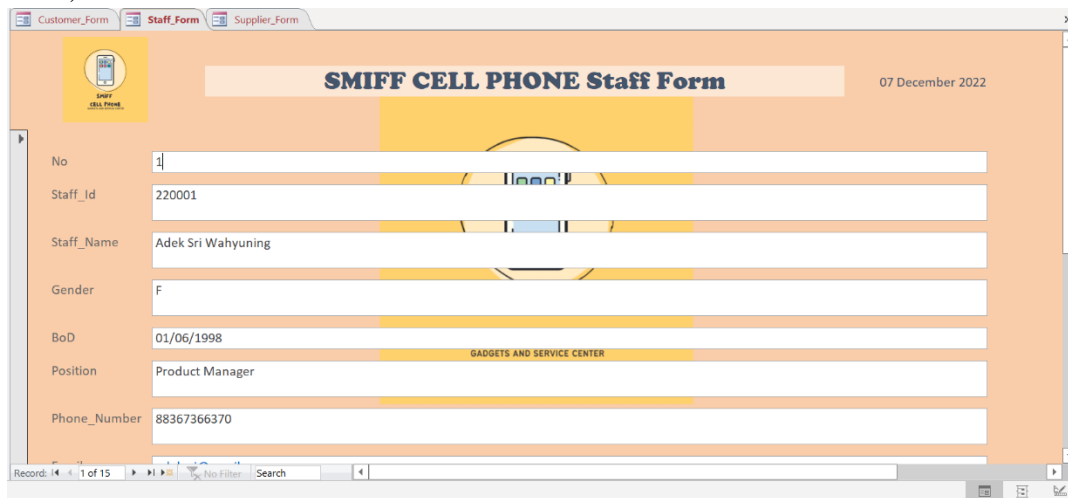
The screenshot shows a web application window titled "Customer_Form". The main heading is "SMIFF CELL PHONE Customer Form" with a date of "07 December 2022". The form contains the following fields:

No	
Customers_Id	22001
Name	Ahmad Santoso
Gender	M
Address	Bumi Asri Regency, No.14
BoD	22/01/1984
Phone_Number	085432561998
Email	ahmad.santoso@gmail.com

The bottom of the window shows a record navigation bar with "Record: 14", "1 of 40", and a search bar.

This form is made to make it easier for companies to collect data on each customer who buys goods.

2) Form of Staff



The screenshot shows a web application window titled "Staff_Form". The main heading is "SMIFF CELL PHONE Staff Form" with a date of "07 December 2022". The form contains the following fields:

No	
Staff_Id	220001
Staff_Name	Adek Sri Wahyuning
Gender	F
BoD	01/06/1998
Position	Product Manager
Phone_Number	88367366370

The bottom of the window shows a record navigation bar with "Record: 14", "1 of 15", and a search bar.

This form was created to make it easier for companies to record every employee in the company.

3) Form of Supplier

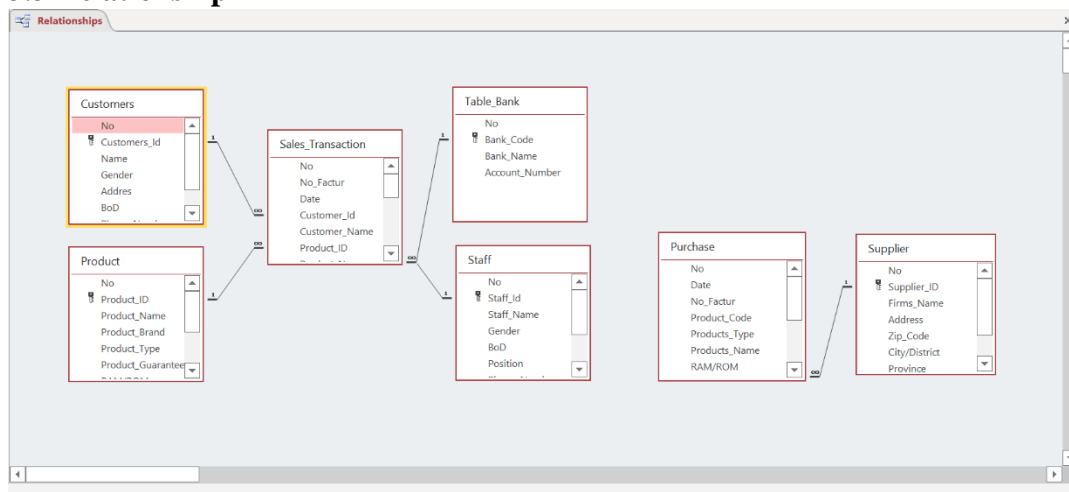
The screenshot shows a web-based form titled "SMIFF CELL PHONE Supplier Form" with a date of "07 December 2022". The form is divided into several sections for data entry:

- No:** A text input field.
- Supplier_ID:** A dropdown menu with "Supp-1" selected.
- Firms_Name:** A text input field containing "PT. Samsung Electronic Indonesia".
- Address:** A text input field containing "Jl. Jababeka Raya Blok F. 29 No.31, Harja Mekar, Cikarang Utara".
- Zip_Code:** A text input field containing "17530".
- City/District:** A text input field containing "District Bekasi".
- Province:** A text input field containing "West Java".
- Telephone_Number:** A text input field containing "(021) 89837114".

At the bottom of the form, there is a status bar showing "Record: 14 of 15" and a search bar.

Form of supplier is created because it can make easier to company to record each supplier that the company trusts in stocking goods.

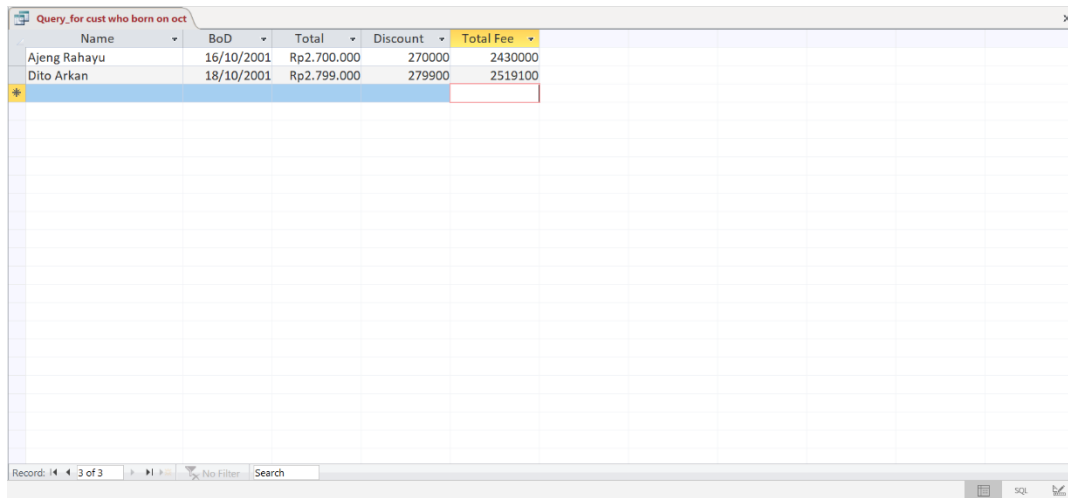
3.3 Relationship



Relationship is a diagram that connects one field to another field that has a certain relationship using the primary key that is in each field.

3.4 Query

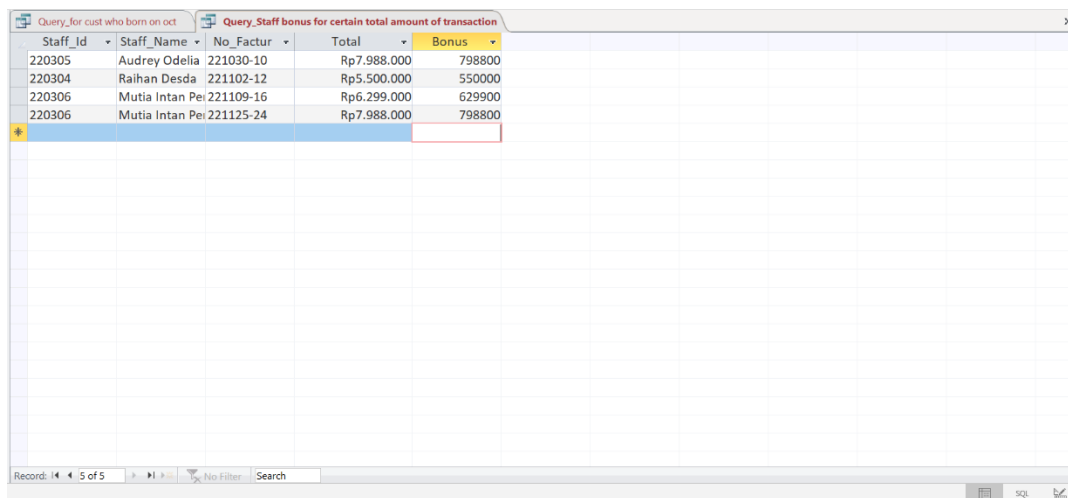
1) For customer



Name	BoD	Total	Discount	Total Fee
Ajeng Rahayu	16/10/2001	Rp2.700.000	270000	2430000
Dito Arkan	18/10/2001	Rp2.799.000	279900	2519100

Query for customer is the discount that company gift to customers born in october. The data include customer name, birt of date of customer, total purchases, dicount that company give, and total fee that customer must pay.

2) For staff



Staff_Id	Staff_Name	No_Factur	Total	Bonus
220305	Audrey Odelia	221030-10	Rp7.988.000	798800
220304	Raihan Desda	221102-12	Rp5.500.000	550000
220306	Mutia Intan Pei	221109-16	Rp6.299.000	629900
220306	Mutia Intan Pei	221125-24	Rp7.988.000	798800

Query for staff is the bonus that company gift to staff who sell more than a certain number of transactions. The data include staff id, staff name, number of factur, total of salaries, and the bonus that company give.

3) Tax

Query: Tax for certain total amount purchase trans						
Product Code	Products Name	Quan	Purchase Pr	Total	Tax	
VV-Y106	Vivo Y35	9	Rp3.099.000	Rp27.891.000	3068010	
SY-X135	Sony Xperia XZ2	9	Rp4.000.000	Rp36.000.000	3960000	
SY-X136	Sony Xperia XZ3	6	Rp5.050.000	Rp30.300.000	3333000	
HW-NV9	Huawei Nova 9	5	Rp6.900.000	Rp34.500.000	3795000	
*		0	Rp0			

This query is the tax that company must pay because of purchases. The data include product code, product name, quantity, purchase per price, total of purchases, and tax.

3.5 Report

1) Report of Customers

SMIFF Customers Report						
07 December 2022 21:53:22						
No	Customers_Id	Name	Gender	Address	BoD	Phone_Number
1	22001	Ahmad Santoso	M	Bumi Asri Regency, No.14	22/01/1984	085432561998
2	22002	Alika Islamadina	F	Bamboo Regency, No.12	19/04/1998	087572283727
3	22003	Arin Zulaikha	F	Supomo St, No. 11	31/03/1999	081325562717
4	22004	Dion Hidayat	M	Brigdjen Dharsono St, No. 09	04/11/2000	082322818391
5	22005	Fahmi Nasrullah	M	Hatta St, No.13	05/05/1997	085167281218
6	22006	Gavy Ramadhan	M	Griya Indah Regency, No.30	09/08/2000	089172872929
7	22007	Dion Malik Purnama	M	Supomo St, No. 02	10/07/1999	081452722621
8	22008	Ajeng Rahayu	F	Griya Indah Regency, No.11	16/10/2001	087673718035
9	22009	Cantika Pitaloka	F	Bamboo Regency, No.23	11/02/2002	085162825627
10	22010	Yura Angelia	F	Sudirman St, No.14	07/07/2003	085187282022
11	22011	Satrio Darmawan	M	Bulan St, No.06	09/12/1997	089278378394
12	22012	Putra Bakti Wangsa	M	Bumi Asri Regency, No.07	03/03/2000	083426731831
13	22013	Uti Zakiyyah	F	Madani Regency, No.17	09/02/1999	087163731570

Report of customer is made to make it easier to present reports to customers within the company.

2) Report of Staff

SMIFF Staff Report								
07 December 2022 21:44:27								
No	Staff_Id	Staff_Name	Gender	BoD	Position	Phone_Number	Email	Address
1	220001	Adek Sri Wahyuning	F	01/06/1998	Product Manager	088367366370	adeksri@gmail.com	Tarun
2	220002	Farel Abiyyu Fayyadh	M	13/09/1998	Marketing Manager	087567287916	farelfayyadh@gmail.com	Merd
3	220003	Raisya Fatia Indra	F	05/07/1995	HRD	085656367236	raisyfatiaind@gmail.com	Tarun
4	220101	Della Azizah	F	21/03/1999	Shopkeeper	082331478863	dellaazizah01@gmail.com	Pame
5	220102	Rahma Yona Marsa	F	01/11/1998	Shopkeeper	085277645809	yonamarsaa5@gmail.com	Utam
6	220103	Tessa Putri Fahira	F	22/08/1999	Shopkeeper	083875411223	tessafahira@gmail.com	Mera
7	220201	Orva Linnissa	F	13/08/2000	Storage	081268987654	linnissaorva2@gmail.com	Kalaw
8	220202	Imam Azra	M	03/09/1999	Storage	081362063279	imamaazra@gmail.com	Sekar
9	220203	Sultan Ihsan	M	08/02/1998	Storage	081271807288	ihsn81@gmail.com	Griya
10	220301	Shafira Hafiz	F	13/08/2000	Sales	085372614554	shafirahafiz@gmail.com	Griya
11	220302	Rini Nurzayni	F	15/12/1997	Sales	081268633703	rini06@gmail.com	Bulan
12	220303	Nisrina Azzahra	F	11/11/2000	Sales	085302617795	azzahra01@gmail.com	Rasur
13	220304	Raihan Desda	M	05/10/1998	Sales	082372734651	raihandesda@gmail.com	Roha

Report of staff is made to make it easier to present reports to staff within the company.

3) Report of Products

SMIFF Product Report									
No	Product_ID	Product_Name	Product_Brand	Product_Type	Product_Guarantee	RAM/ROM	Quantity_Availability	Purchase_Price	Selling_Price
1	SM-A101	Samsung A035	Samsung	Handphone	12 Months	3/32 GB	10	Rp1.159.200	Rp1.449.000
2	SM-A102	Samsung A01	Samsung	Handphone	12 Months	2/16 GB	12	Rp1.188.000	Rp1.485.000
3	SM-T103	Galaxy Tab A8	Samsung	Tab	12 Months	4/128 GB	4	Rp3.679.200	Rp4.599.000
4	SM-T104	Galaxy Tab S6 Lite	Samsung	Tab	12 Months	4/128 GB	2	Rp5.039.200	Rp6.299.000
5	SM-M105	Samsung M20	Samsung	Handphone	12 Months	3/32 GB	6	Rp1.200.000	Rp1.500.000
6	VV-Y106	Vivo Y35	Vivo	Handphone	12 Months	8/128 GB	9	Rp2.719.200	Rp3.399.000
7	VV-Y107	Vivo V7	Vivo	Handphone	12 Months	8/128GB	5	Rp3.104.000	Rp3.880.000
8	VV-P108	Vivo PAD SNAPDRAGON	Vivo	Tab	12 Months	8/128 GB	2	Rp6.390.400	Rp7.988.000
9	VV-Y109	Vivo Y15	Vivo	Handphone	12 Months	4/64 GB	5	Rp1.919.200	Rp2.399.000
10	VV-V110	Vivo Y83	Vivo	Handphone	12 Months	4/32 GB	7	Rp2.239.200	Rp2.799.000
11	PP-F111	Oppo F1	Oppo	Handphone	12 Months	3/32 GB	6	Rp1.280.000	Rp1.600.000
12	PP-F112	Oppo F3	Oppo	Handphone	12 Months	4/64 GB	7	Rp3.199.200	Rp3.999.000
13	PP-F113	Oppo F15	Oppo	Handphone	12 Months	8/128 GB	8	Rp1.600.000	Rp2.000.000

Report of product is made to make company easier to present reports of product.

CHAPTER IV

CLOSING

4.1 Summary

Based on the results of the practice of the business plan database and the discussions that have been carried out, it is concluded as follows :

- 1.It is less difficult to processing the records through the database
- 2.Using the database now will not take long or many times to controlling the business
- 3.We can create form without delay from the database
- 4.The records may be set up orderly

4.2 Suggestion

Based on our practice, We want every company to create or maintain a business database to facilitate business record keeping and operations. Based on experience, without creating a database, companies and businesses will find it difficult to operate and process transactional data.