

LAPORAN
PRAKTIKUM DATA WAREHOUSING DAN DATA MINING
(MODUL 4)



Disusun oleh :

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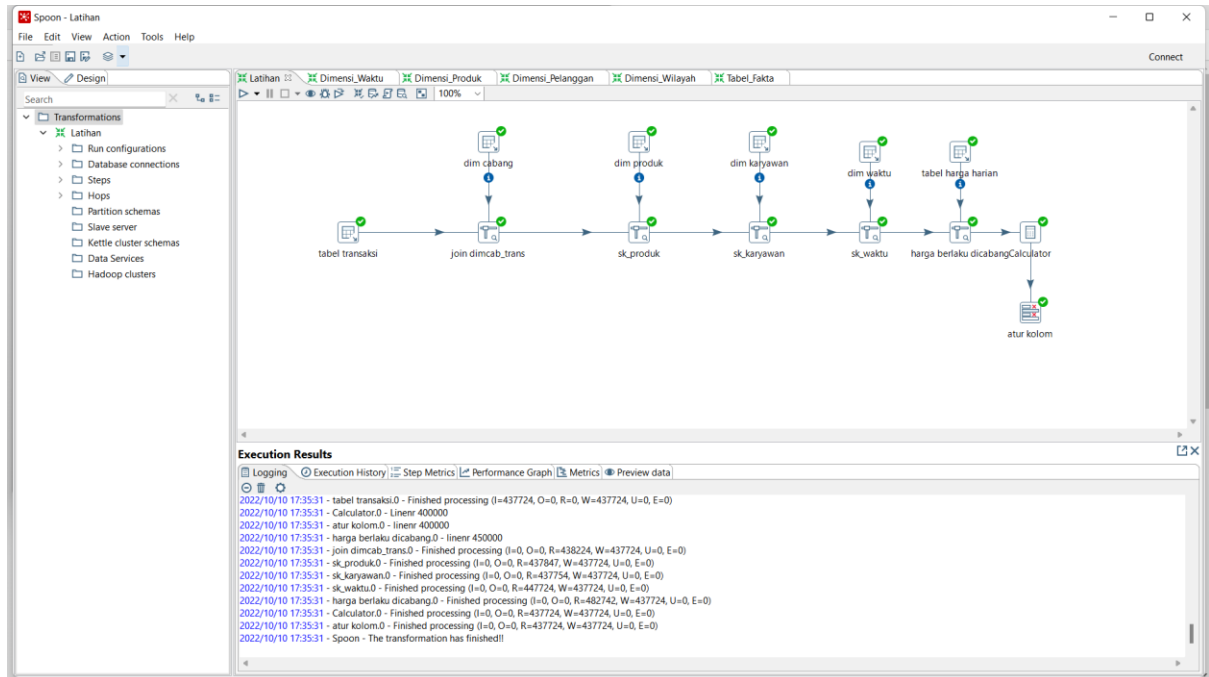
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UNIVERSITAS MUHAMMADIYAH SURAKARTA
TAHUN 2022/2023

Langkah-Langkah Praktikum

- Tampilan Pentaho



- Tampilan Database

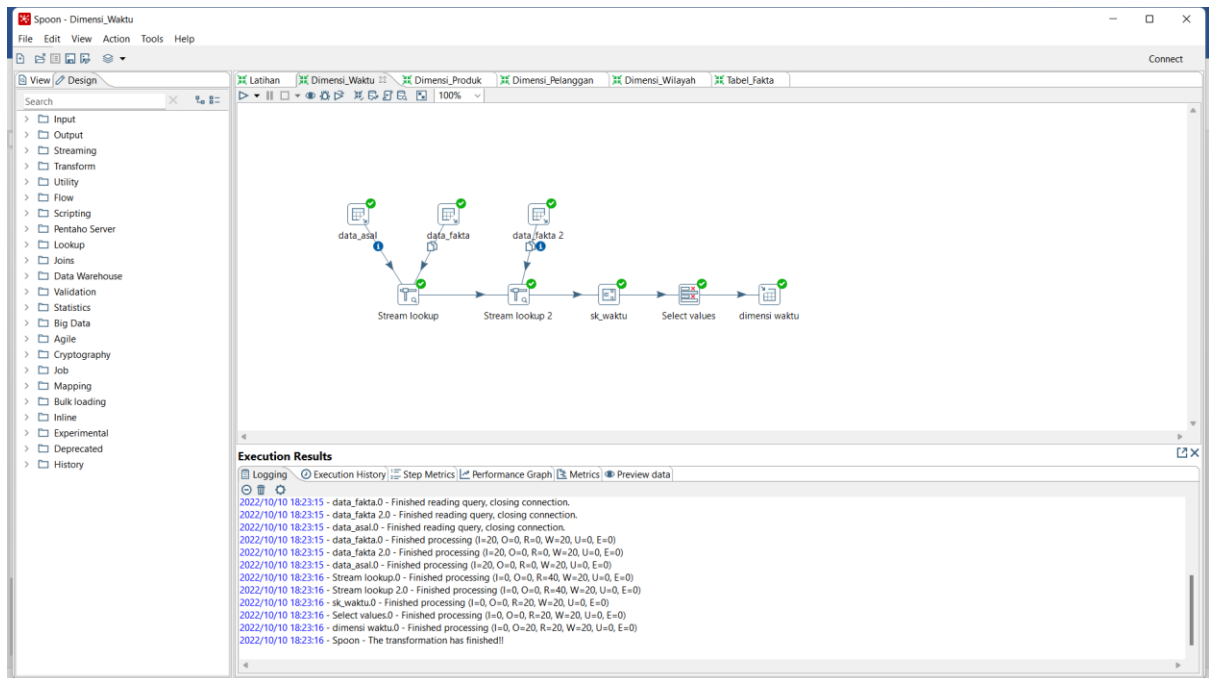
The screenshot displays the phpMyAdmin interface. The left sidebar shows a tree view of the database structure, including dw_fact, dw_phi, dim_cabang, dim_karyawan, dim_produk, dim_waktu, fact_penjualan, information_schema, kuliah, i200200106, iyan, modul4, New, data_asal, data_fakta, mysql, performance_schema, perhotelan, persewaan_game, phi_minimart, New, ms_cabang, ms_harga_harian, ms_karyawan, ms_kategori, ms_kota, ms_produk, and ms_propinsi. The main workspace shows the 'fact_penjualan' table structure and data. The table has the following columns: sk_produk, sk_karyawan, kode_cabang, sk_waktu, jumlah_pembelian, and total_harga. The table contains 25 rows of data.

sk_produk	sk_karyawan	kode_cabang	sk_waktu	jumlah_pembelian	total_harga
39	28	CABANG-039	20083022.00	12	181080
22	28	CABANG-039	20083022.00	16	226720
19	28	CABANG-039	20083022.00	12	62880
1	28	CABANG-039	20083022.00	11	46420
35	28	CABANG-039	20083022.00	14	420840
14	28	CABANG-039	20083022.00	9	169920
22	28	CABANG-039	20083022.00	20	283400
23	28	CABANG-039	20083022.00	9	134460
17	28	CABANG-039	20083022.00	3	26880
5	28	CABANG-039	20083022.00	9	72990
36	28	CABANG-039	20083022.00	10	49900
5	28	CABANG-039	20083022.00	18	145980
35	28	CABANG-039	20083022.00	5	150300
24	28	CABANG-039	20083022.00	8	81280
6	28	CABANG-039	20083022.00	14	64960
24	28	CABANG-039	20083022.00	18	182880
39	28	CABANG-039	20083022.00	18	271620
8	28	CABANG-039	20083022.00	5	23450
1	28	CABANG-039	20083022.00	9	30960

Tugas membuat tabel fakta

Dimensi waktu

- Tampilan Pentaho



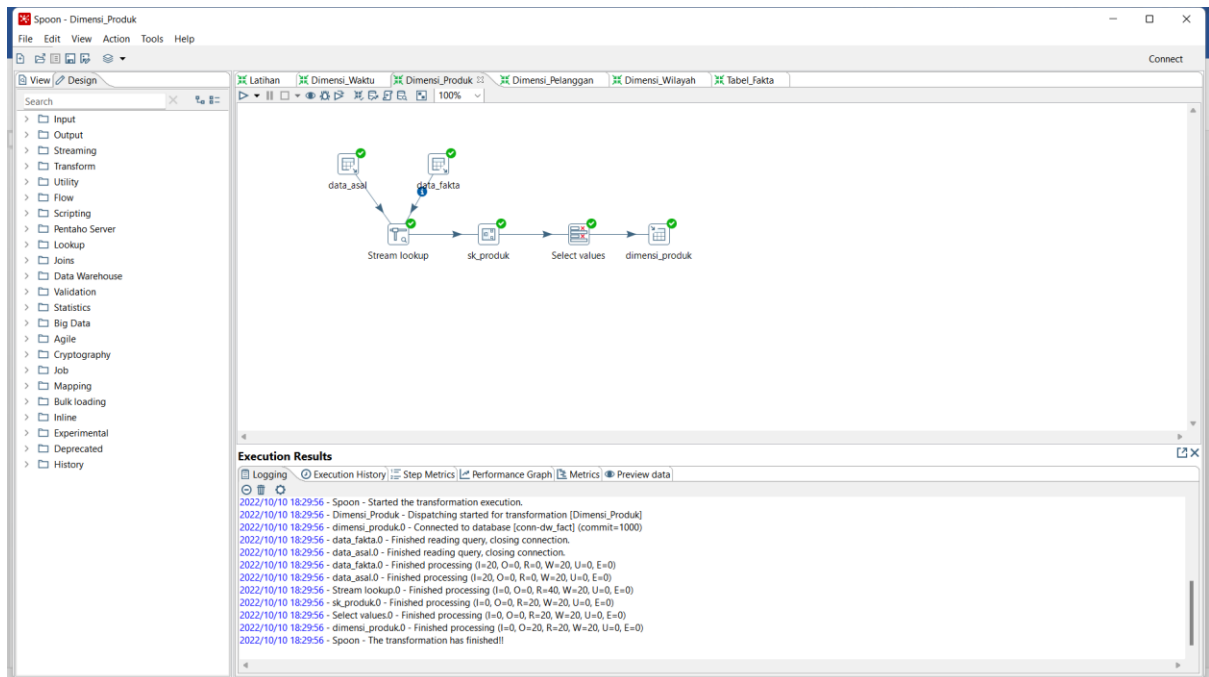
- Tampilan Database

The screenshot shows the phpMyAdmin interface with the 'dim_waktu' table selected in the 'dw_fact' database. The table structure is as follows:

sk_waktu	waktu	bulan	tahun
1	2011-12-28 00:00:00	12	2011
2	2012-09-18 00:00:00	1	2012
3	2012-09-18 00:00:00	4	2012
4	2012-09-18 00:00:00	4	2011
5	2012-09-18 00:00:00	9	2012
6	2012-09-18 00:00:00	5	2012
7	2012-09-18 00:00:00	12	2011
8	2012-09-18 00:00:00	10	2011
9	2012-12-15 00:00:00	1	2011
10	2012-12-15 00:00:00	2	2012
11	2012-12-15 00:00:00	3	2010
12	2012-12-15 00:00:00	3	2011
13	2012-12-15 00:00:00	12	2012
14	2012-12-15 00:00:00	1	2012
15	2012-09-28 00:00:00	9	2012
16	2012-09-28 00:00:00	6	2012

Dimensi Produk

- Tampilan Pentaho



- Tampilan Database

The screenshot displays the phpMyAdmin interface showing the 'dim_waktu' table in the 'dw_fact' database. The table structure is as follows:

sk_waktu	waktu	bulan	tahun
1	2011-12-28 00:00:00	12	2011
2	2012-09-18 00:00:00	1	2012
3	2012-09-18 00:00:00	4	2012
4	2012-09-18 00:00:00	4	2011
5	2012-09-18 00:00:00	9	2012
6	2012-09-18 00:00:00	5	2012
7	2012-09-18 00:00:00	12	2011
8	2012-09-18 00:00:00	10	2011
9	2012-12-15 00:00:00	1	2011
10	2012-12-15 00:00:00	2	2012
11	2012-12-15 00:00:00	3	2010
12	2012-12-15 00:00:00	3	2011
13	2012-12-15 00:00:00	12	2012
14	2012-12-15 00:00:00	1	2012
15	2012-09-28 00:00:00	9	2012
16	2012-09-28 00:00:00	6	2012

Dimensi Pelanggan

- Tampilan Pentaho

Execution Results

Logging | Execution History | Step Metrics | Performance Graph | Metrics | Preview data

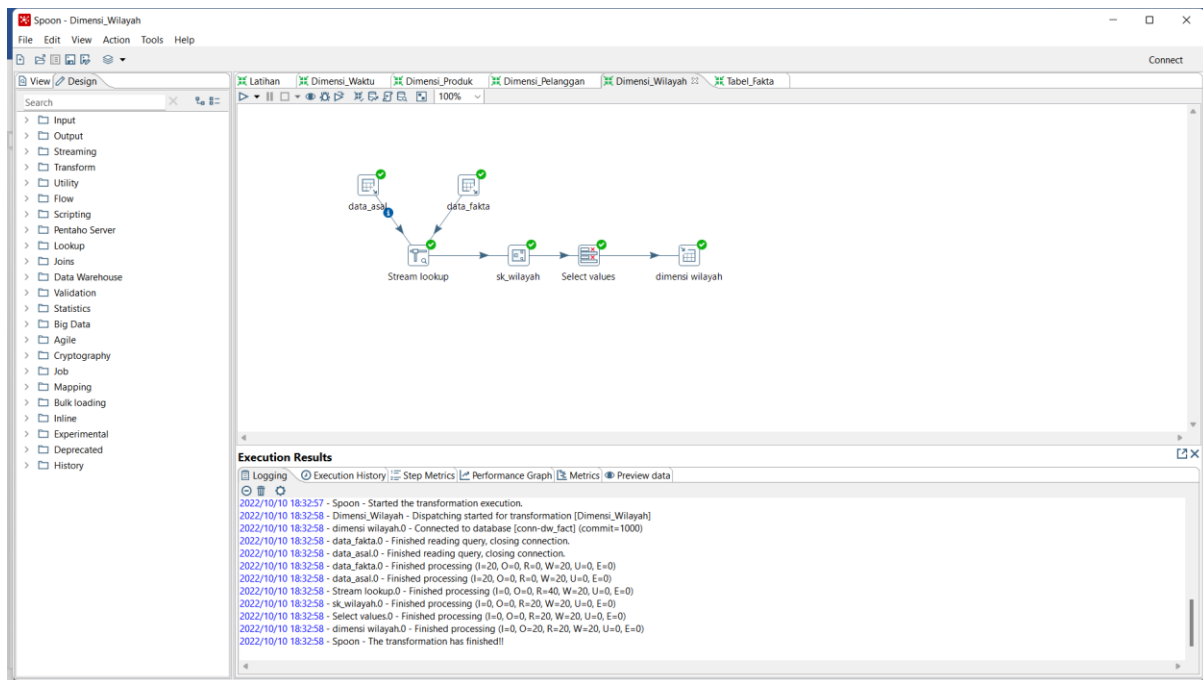
2022/10/10 18:31:16 - Spoon - Started the transformation execution.
2022/10/10 18:31:17 - Dimensi_Pelanggan - Dispatching started for transformation [Dimensi_Pelanggan]
2022/10/10 18:31:17 - dimensi_pelanggan0 - Connected to database [com-dw_fact] (commit=1000)
2022/10/10 18:31:17 - data_fakta0 - Finished reading query, closing connection.
2022/10/10 18:31:17 - data_asal0 - Finished reading query, closing connection.
2022/10/10 18:31:17 - data_asal0 - Finished processing (I=20, O=0, R=0, W=20, U=0, E=0)
2022/10/10 18:31:17 - data_fakta0 - Finished processing (I=20, O=0, R=0, W=20, U=0, E=0)
2022/10/10 18:31:17 - Stream lookup0 - Finished processing (I=0, O=0, R=40, W=20, U=0, E=0)
2022/10/10 18:31:17 - sk_pelanggan0 - Finished processing (I=0, O=0, R=20, W=20, U=0, E=0)
2022/10/10 18:31:17 - Select values0 - Finished processing (I=0, O=0, R=20, W=20, U=0, E=0)
2022/10/10 18:31:17 - dimensi_pelanggan0 - Finished processing (I=0, O=0, R=20, W=20, U=0, E=0)
2022/10/10 18:31:17 - Spoon - The transformation has finished!!

- Tampilan Database

sk_pelanggan	nama_pelanggan	kode_gender
1	Ibu Siti Arya	WANITA
2	Ibu Tyas	WANITA
3	Ibu Tyas	WANITA
4	Ibu Siti Arya	WANITA
5	Ibu Siti Arya	WANITA
6	Ibu Hatamah	WANITA
7	Ibu Tyas	WANITA
8	Ibu Hatamah	WANITA
9	Bapak Ketut	PRIA
10	Ibu Hatamah	WANITA
11	Ibu Hatamah	WANITA
12	Ibu Siti Arya	WANITA
13	Ibu Siti Arya	WANITA
14	Ibu Tyas	WANITA
15	Ibu Hatamah	WANITA
16	Ibu Hatamah	WANITA

Dimensi Wilayah

- Tampilan Pentaho



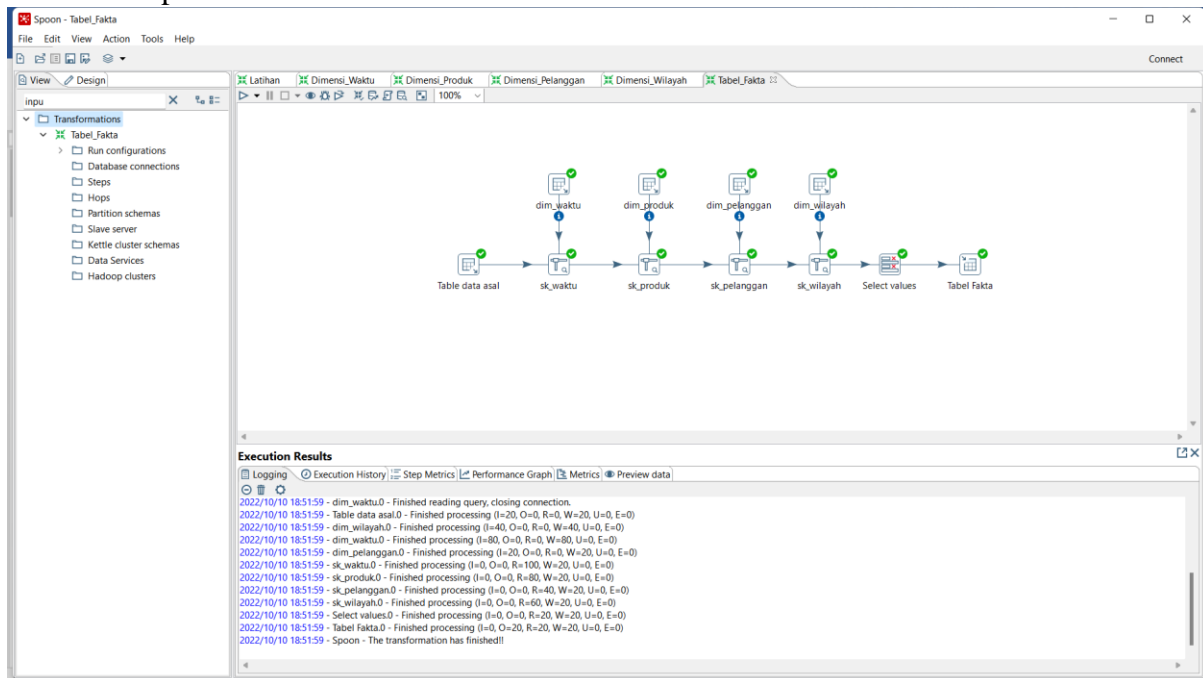
- Tampilan Database

The screenshot displays the phpMyAdmin interface. The left sidebar shows the database structure, with 'dw_fact' selected. The main pane shows the 'dim_pelanggan' table. The table structure is as follows:

sk_pelanggan	nama_pelanggan	kode_gender
1	Ibu Siti Arya	WANITA
2	Ibu Tyas	WANITA
3	Ibu Tyas	WANITA
4	Ibu Siti Arya	WANITA
5	Ibu Siti Arya	WANITA
6	Ibu Hatamah	WANITA
7	Ibu Tyas	WANITA
8	Ibu Hatamah	WANITA
9	Bapak Ketut	PRIA
10	Ibu Hatamah	WANITA
11	Ibu Hatamah	WANITA
12	Ibu Siti Arya	WANITA
13	Ibu Siti Arya	WANITA
14	Ibu Tyas	WANITA
15	Ibu Hatamah	WANITA
16	Ibu Hatamah	WANITA

Tabel Fakta

- Tampilan Pentaho



- Tampilan Database

sk_waktu	sk_produk	sk_pelanggan	sk_wilayah	jumlah
17	20	9	1	2
18	11	20	8	14
18	15	20	8	4
17	6	20	8	3
18	18	9	8	1
18	16	9	8	3
17	20	20	8	1
17	18	20	8	1
17	4	9	14	1
18	13	20	14	17
20	13	20	14	17
17	5	20	14	8
18	20	20	14	1
18	12	20	14	44
18	19	20	20	1
18	17	20	20	1
17	7	20	20	5
18	14	20	20	7
20	2	20	20	1
20	19	20	20	5

- Data Asal

The screenshot shows the phpMyAdmin interface for the 'modul4' database. The 'data_asal' table is selected, and its structure and data are displayed. The table has 6 columns: waktu, nama_barang, harga, jumlah, pembeli, and nama_wilayah. The data is as follows:

waktu	nama_barang	harga	jumlah	pembeli	nama_wilayah
2010-03-26	Celana Standar Print Lasem	55000	17	Ibu Hadi Sukarni	Jawa Barat
2010-06-14	Bahan Beludru Cap Mahkota	500000	1	Ibu Tyas	Jawa Tengah
2010-11-21	Hem Sutra Print Rama	100000	5	Ibu Tyas	Jawa Tengah
2011-01-05	Kaos Katun Print Bola	60000	1	Bapak Imron	Jawa Barat
2011-03-27	Bahan Standar Cap Lasem	120000	8	Ibu Siti Arya	Jawa Barat
2011-04-09	Hem Katun Print Kawung	70000	3	Ibu Harini	Jawa Timur
2011-08-19	Hem Standar Tulis Madura	550000	5	Ibu Atik	Jawa Tengah
2011-10-13	Sarimbit Stadar Print Lukis	150000	1	Ibu Hatamah	Jawa Timur
2011-12-28	Jarik Standar Print Sogan	225000	2	Bapak Ketut	Bali
2011-12-30	Bolero Standar Cap Sidomukti	225000	1	Ibu Hatamah	Jawa Timur
2012-01-04	Kaos Batik Cap Lukis	30000	14	Ibu Harini	Jawa Timur
2012-01-09	Jam Standar Print Lukis	80000	44	Ibu Siti Arya	Jawa Barat
2012-02-14	Celana Standar Cap Warna	55000	17	Ibu Hadi Sukarni	Jawa Barat
2012-04-05	Bahan Standar Cap Garis	135000	7	Ibu Tyas	Jawa Tengah
2012-04-06	Jarik Standar Tulis Sarimbit	40000	4	Ibu Harini	Jawa Timur
2012-05-21	Hem Katun Print Kelengan	299000	3	Bapak Totok	Jawa Timur
2012-06-22	Bahan Lawasan Tulis Toilet	130000	1	Ibu Niken	Jawa Tengah
2012-09-18	Batik Standar Cap Tumpal	150000	1	Bapak Heru	Jawa Timur
2012-09-28	Hem Standar Cap Tumpal	100000	1	Ibu Aini Kasmaji	Jawa Tengah
2012-12-15	Rok Batik Print Kombinasi	225000	1	Ibu Siti Arya	Jawa Barat

- Data Fakta

The screenshot shows the phpMyAdmin interface for the 'modul4' database. The 'data_fakta' table is selected, and its structure and data are displayed. The table has 11 columns: bulan, kuartal, tahun, nama_produk, nama_kategori, nama_subkategori, kode_pota, nama_pelanggan, kode_gender, nama_wilayah, jumlah, and harga. The data is as follows:

bulan	kuartal	tahun	nama_produk	nama_kategori	nama_subkategori	kode_pota	nama_pelanggan	kode_gender	nama_wilayah	jumlah	harga
12	4	2011	Jarik Standar Print Sogan	Standar	Jarik	Print	Bapak Ketut	PRIA	Bali	2	225000
1	1	2012	Kaos Batik Cap Lukis	Batik	Kaos	Cap	Ibu Harini	WANITA	Jawa Timur	14	30000
4	2	2012	Jarik Standar Tulis Sarimbit	Standar	Jarik	Tulis	Ibu Harini	WANITA	Jawa Timur	4	40000
4	2	2011	Hem Katun Print Kawung	Katun	Hem	Print	Ibu Harini	WANITA	Jawa Timur	3	70000
9	3	2012	Batik Standar Cap Tumpal	Standar	Batik	Cap	Bapak Heru	PRIA	Jawa Timur	1	150000
5	2	2012	Hem Katun Print Kawung	Katun	Hem	Print	Bapak Totok	PRIA	Jawa Timur	3	299000
12	4	2011	Bolero Standar Cap Sidomukti	Standar	Bolero	Cap	Ibu Hatamah	WANITA	Jawa Timur	1	225000
10	4	2011	Sarimbit Stadar Print Lukis	Standar	Sarimbit	Print	Ibu Hatamah	WANITA	Jawa Timur	1	150000
1	1	2011	Kaos Katun Print Bola	Katun	Kaos	Print	Bapak Imron	PRIA	Jawa Barat	1	60000
2	1	2012	Celana Standar Cap Warna	Standar	Celana	Cap	Ibu Hadi Sukarni	WANITA	Jawa Barat	17	55000
3	1	2010	Celana Standar Print Lasem	Standar	Celana	Print	Ibu Hadi Sukarni	WANITA	Jawa Barat	17	55000
3	1	2011	Bahan Standar Cap Lasem	Standar	Bahan	Cap	Ibu Siti Arya	WANITA	Jawa Barat	8	120000
12	4	2012	Rok Batik Print Kombinasi	Batik	Rok	Print	Ibu Siti Arya	WANITA	Jawa Barat	1	225000
1	1	2012	Jam Standar Print Lukis	Standar	Jam	Print	Ibu Siti Arya	WANITA	Jawa Barat	44	80000
9	3	2012	Hem Standar Cap Tumpal	Standar	Hem	Cap	Ibu Aini Kasmaji	WANITA	Jawa Tengah	1	100000
6	2	2012	Bahan Lawasan Tulis Toilet	Lawasan	Bahan	Tulis	Ibu Niken	WANITA	Jawa Tengah	1	130000
8	3	2011	Hem Standar Tulis Madura	Standar	Hem	Tulis	Ibu Atik	WANITA	Jawa Tengah	5	550000
4	2	2012	Bahan Standar Cap Lasem	Standar	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	7	135000
6	2	2010	Bahan Beludru Cap Mahkota	Beludru	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	1	500000
11	4	2010	Hem Sutra Print Rama	Sutra	Hem	Print	Ibu Tyas	WANITA	Jawa Tengah	5	100000