**SISTEM BASIS DATA**

**E-BANK EMAIL GATEWAY**



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**STEP 1**

**SISTEM BASIS DATA E-BANK GATEWAY**

Import Customer

Import Transaksi MTM

Registrasi Product

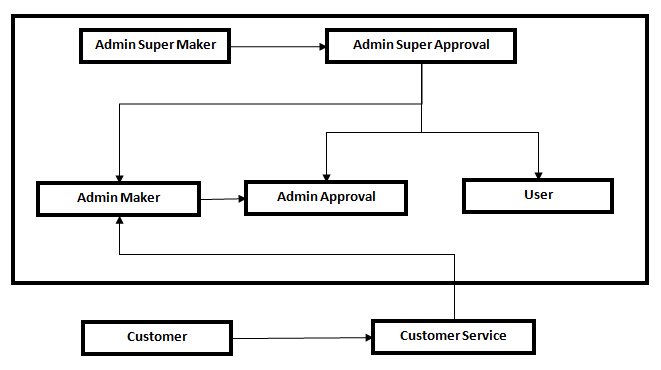
Kirim Email

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| --- | --- | --- | --- |
| **Transaksi** | **Langkah-langkah** | **Dokumen** | **User** |
| **Import Customer** | 1. System otomatis melakukan import customer setiap jam 5:00 pagi 2. Data customer yang baru, di insert ke tabel customer 3. Data customer yang lama, dan ada perubahan data, dilakukan update data | - | * Admin Maker * Admin Approval |
| **Import transaksi MTM** | 1. System otomatis melakukan import transaksi MTM setiap jam 9:00 s/d jam 21:00 2. Data Transaksi MTM yang masuk di simpan kedalam tabel Transaksi MTM 3. Setelah transaksi di import, kemudian digenerate report dan emailnya | * Report Transaksi MTM | * Admin Maker * Admin Approval * User |
| **Registrasi Product** | 1. Customer darang ke bank dan meminta diberikan emial berisi laporan Transaksi MTM secara berkala setiap hari 2. Customer Service mencatat request user dan menyerahkannya ke Admin Maker untuk di proses registrasinya 3. Admin Maker melakukan registrasi product e-Bank Email Gateway berdasarkan data customer yg diterima 4. Admin Approval melakukan approve data dari setiap customer yang telah diregistrasi | * Email notifikasi tentang registrasi product * Template report transaksi mtm | * Admin Maker * Admin Approval |
| **Kirim Email** | 1. System secara otomatis melakukan pengiriman email setiap 2 menit sekali | * Email berisi report transaksi mtm | * Admin Maker * Admin Approval * User |

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|  | | | |
| **NO** | **ASUMSI DATA** | **MASTER** | **TRANSAKSI** |
| 1 | Customer | \* |  |
| 2 | User | **\*** |  |
| 3 | Product | **\*** |  |
| 4 | Registrasi Product |  | **\*** |
| 5 | TansaksiMtm |  | **\*** |
| 6 | Email queue |  | **\*** |
| 7 | Email queue detail |  | **\*** |

**STEP II**

**BATASAN SISTEM**



* Note :

1. Pada proses pembuatan E-Bank email Gateway , Customer melakukan proses adminitrasi data
2. Customer service menerima laporan berkas aplikasi data dari Customer (pemilihan product sesuai kebutuhan)
3. Customer Service memberikan data dari Customer kepada Admin Maker untuk diproses
4. Setelah data sudah di approval oleh Admin Approval, maka System akan otomatis sending email sesuai paket product yang di pilih customer

**STEP III**

**ANALISA DAN PENGUMPULAN DATA**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Data** | **Tipe** | **Admin** | **Admin** | **User** | **Adm** | **Admin** |
| **Akses** | **Maker** | **Approval** |  | **SM** | **SA** |
| **Customer** | Query | **\*** | **\*** |  |  |  |
| View | **\*** | **\*** | **\*** |  |  |
| Laporan | **\*** | **\*** | **\*** |  |  |
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| **Data** | **Tipe** | **Admin** | **Admin** | **User** | **Adm** | **Admin** |
| **Akses** | **Maker** | **Approval** |  | **SM** | **SA** |
| **User** | Query |  |  |  | **\*** | **\*** |
| View |  |  |  | **\*** | **\*** |
| Laporan |  |  |  |  | **\*** |
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| **Data** | **Tipe** | **Admin** | **Admin** | **User** | **Adm** | **Admin** |
| **Akses** | **Maker** | **Approval** |  | **SM** | **SA** |
| **Product** | Query |  |  |  | **\*** | **\*** |
| View |  |  |  | **\*** | **\*** |
| Laporan |  |  |  |  | **\*** |
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| **Data** | **Tipe** | **Admin** | **Admin** | **User** | **Adm** | **Admin** |
| **Akses** | **Maker** | **Approval** |  | **SM** | **SA** |
| **Registrasi Product** | Query | **\*** | **\*** |  |  |  |
| View | **\*** | **\*** |  |  |  |
| Laporan |  | **\*** |  |  |  |
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| **Data** | **Tipe** | **Admin** | **Admin** | **User** | **Adm** | **Admin** |
| **Akses** | **Maker** | **Approval** |  | **SM** | **SA** |
| **Tansaksi Mtm** | Query | **\*** | **\*** |  |  |  |
| View | **\*** | **\*** | **\*** |  |  |
| Laporan | **\*** | **\*** | **\*** |  |  |
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| **Data** | **Tipe** | **Admin** | **Admin** | **User** | **Adm** | **Admin** |
| **Akses** | **Maker** | **Approval** |  | **SM** | **SA** |
| **Email Queue** | Query | **\*** | **\*** |  |  |  |
| View | **\*** | **\*** | **\*** |  |  |
| Laporan | **\*** | **\*** | **\*** |  |  |
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| **Data** | **Tipe** | **Admin** | **Admin** | **User** | **Adm** | **Admin** |
| **Akses** | **Maker** | **Approval** |  | **SM** | **SA** |
| **Email Queue detail** | Query | **\*** | **\*** |  |  |  |
| View | **\*** | **\*** | **\*** |  |  |
| Laporan | **\*** | **\*** | **\*** |  |  |
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**STEP IV**

**PERANCANGAN KONSEPTUAL DATABASE**

1. **IDENTIFIKASI TIPE ENTITAS**

|  |  |  |
| --- | --- | --- |
| **NamaEntitas** | **Deskripsi** | **Kejadian** |
| Customer | Mendiskripsikan orang yang telahmenjadi nasabah pada bank | Setiap Customer melakukan satu atau lebih product transaksi yang disediakan oleh bank |
| User | Mendeskripsikan orang yang menggunakan system eBank mail gateway, diantaranya 1. Admin Super Maker 2. Admin Super Approval 3. Admin Maker 4. Admin Approval 5. User | Setiap user bekerja padamasing-masing divisi |
| Product | Mendeskripsikan product dari bank, yang telah memiliki fasilitas email gateway | Setiap product memiliki akses untuk user, dimana akses tiap user ini di atur oleh Admin Super Maker dan Admin Super Approval |
| Registrasi Product | Mendeskripsikan proses pendaftaran product eBank Email Gateway yang menjadi langganan Customer | Setiap customer bias mendaftarkan langganan (subcriptionnya) lebih dari satu product |
| TansaksiMtm | Mendeskripsikan data transaksi MTM | Data transaksi MTM ini di import oleh system secara realtime, secara otomatis |
| Email Queue | Mendeskripsikan data email queue, system akan menggunakan data ini sebagai acuan untuk mengirim email secara otomatis | Data email ini adalah daftar queue, yang secara otomatis system akan mengirim email sesuai informasi di table ini |
| Email Queue Detail | Mendeskripsikan data email queue secara lebih detail, di sini ada informasi attachment yang akan di bawa saat kirim email | Email detail berisi informasi attachment file, report/laporan terkait transaksi product |

1. **MENGIDENTIFIKASI TIPE HUBUNGAN**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Nama Entitas** | **Multiplicity** | **Hubungan** | | **Nama Entitas** | **Multiplicity** | |
| Customer | 1..1 | Menerima | | Email | 1..\* | |
|  |  |  | |  |  | |
| User | 1..1 | Melakukan | | Registrasi Product | 1..\* | |
|  | 1..1 | Melakukan | | Email | 1..\* | |
|  |  |  | |  |  | |
| Product | 1..\* | Melibatkan | | User | 1..1 | |
|  | 1..\* | Melibatkan | | Customer | 1..1 | |
|  | 1..1 | Mendasari | | Transaksi MTM | 1..\* | |
| Registrasi Product | 1..\* | Melibatkan | | Product | 1..\* | |
|  | 1..\* | Melibatkan | | Customer | 1..\* | |
|  | 1..1 | Mendasari | | Transaksi MTM | 1..\* | |
|  | 1..\* | Melibatkan | | User | 1..\* | |
| Transaksi MTM | 1..\* | Menghasilkan | | Email Queue | 1..1 | |
|  | 1..1 | Menghasilkan | | Email Queue Detail | 1..\* | |
|  |  |  | |  |  | |
| Email Queue | 1..\* | Melibatkan | | User | 1..1 | |
|  | 1..\* | Melibatkan | | Customer | 1..\* | |
|  | 1..1 | Mendasari | | Email Queue Detail | 1..\* | |
|  |  |  | |  |  | |
| Email Queue Detail | 1..1 | Melibatkan | | Email Queue | 1..\* | |
|  | 1..1 | Melibatkan | | Transaksi MTM | 1..\* | |
|  |  |  |  |  |  |  |

1. **MENGIDENTIFIKASI FIELD TABEL**

**Tabel Customer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Nama Field** | **Tipe Data** | **Panjang** | **Keterangan** |
| 1 | CUSTOMER\_ID | VARCHAR | 10 | Id Customer |
| 2 | CUSTOMER\_OFFICE | VARCHAR | 3 | Office tempat customer mendaftar |
| 3 | NAME | VARCHAR | 50 | Nama Customer |
| 4 | ADDRESS | VARCHAR | 300 | Alamat Customer |
| 5 | ZIP | VARCHAR | 10 | Kode ZIP atau kode Pos |
| 6 | USR\_CRE | VARCHAR | 15 | User yang melakukan create data |
| 7 | USR\_UPD | VARCHAR | 15 | User yang melakukan update |
| 8 | CRE\_DT | DATETIME | 17 | Tanggal create |
| 9 | UPD\_DT | DATETIME | 17 | Tanggal update |

**Tabel User**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Nama Field** | **Tipe Data** | **Panjang** | **Keterangan** |
| 1 | USER\_ID | VARCHAR | 10 | Id User |
| 2 | STATUS | CHAR | 1 | Status aktif user |
| 3 | USER\_NAME | VARCHAR | 15 | Nama lengkap user |
| 4 | USER\_PASSWD | VARCHAR | 20 | Password User |
| 5 | GROUP\_ID | VARCHAR | 20 | User group |
| 6 | PASSWD\_EXP\_DT | DATETIME | 17 | Password expired |
| 7 | USR\_CRE | VARCHAR | 15 | User yang melakukan create data |
| 8 | USR\_UPD | VARCHAR | 15 | User yang melakukan update |
| 9 | CRE\_DT | DATETIME | 17 | Tanggal create |
| 10 | UPD\_DT | DATETIME | 17 | Tanggal update |

**Tabel Product**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Nama Field** | **Tipe Data** | **Panjang** | **Keterangan** |
| 1 | PRODUCT\_ID | VARCHAR | 2 | Product Id |
| 2 | PRODUCT\_NM | VARCHAR | 20 | Nama product |
| 3 | STATUS | VARCHAR | 1 | Status aktif product |
| 4 | MAIL\_HOST | VARCHAR | 20 | hosting email |
| 5 | MAIL\_PORT | VARCHAR | 5 | port email |
| 6 | MAIL\_USERNAME | VARCHAR | 20 | username email |
| 7 | MAIL\_PASSWORD | VARCHAR | 20 | password email |
| 8 | MAIL\_SENDER | VARCHAR | 20 | pengirim email |
| 9 | SENDING\_RETRY | NUMERIC | (2,0) | jumlah pengulangan kirim email |
| 10 | SENDING\_RECURE\_EVERY | NUMERIC | (2,0) | proses mengirim email setiap berapa milisecond |
| 11 | USR\_CRE | VARCHAR | 15 | User yang melakukan create data |
| 12 | USR\_UPD | VARCHAR | 15 | User yang melakukan update |
| 13 | CRE\_DT | DATETIME | 17 | Tanggal create |
| 14 | UPD\_DT | DATETIME | 17 | Tanggal update |

**Tabel Registrasi Product**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Nama Field** | **Tipe Data** | **Panjang** | **Keterangan** |
| 1 | REGISTRASI\_ID | VARCHAR | 15 | Registrasi Id |
| 2 | CUSTOMER\_ID | VARCHAR | 10 | Customer id |
| 3 | PRODUCT\_ID | VARCHAR | 2 | Product Id |
| 4 | STATUS | VARCHAR | 1 | Status aktif/tidak aktif |
| 5 | PASSWORD\_PREFIX | VARCHAR | 50 | Password prefix |
| 6 | PASSWORD\_SUFFIX | VARCHAR | 50 | Password Suffix |
| 7 | PDF\_PASSWORD\_TYPE | VARCHAR | 1 | Type password pdf |
| 8 | PDF\_PASSWORD | VARCHAR | 50 | Free Password pdf |
| 9 | EMAIL\_TO | VARCHAR | 200 | Alamat email\_to customer |
| 10 | EMAIL\_CC | VARCHAR | 200 | Alamat email\_cc customer |
| 11 | EMAIL\_BCC | VARCHAR | 200 | Alamat email\_bcc customer |
| 12 | EMAIL\_SUBJECT | VARCHAR | 100 | Format Email subject |
| 13 | REGISTER\_DT | DATETIME | 17 | Tanggal pendaftaran product |
| 14 | USR\_CRE | VARCHAR | 15 | User yang melakukan create data |
| 15 | USR\_UPD | VARCHAR | 15 | User yang melakukan update |
| 16 | CRE\_DT | DATETIME | 17 | Tanggal create |
| 17 | UPD\_DT | DATETIME | 17 | Tanggal update |

**Tabel Transaksi MTM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Nama Field** | **Tipe Data** | **Panjang** | **Keterangan** |
| 1 | TRANSAKSI\_MTM\_ID | VARCHAR | 50 | Id transaksi MTM |
| 2 | CUSTOMER\_ID | VARCHAR | 10 | Customer Id |
| 3 | PLACE | VARCHAR | 50 | Nama kota |
| 4 | VALUE\_DATE | DATE | 8 | Tanggal berlaku transaksi |
| 5 | CONTRACT\_NO | VARCHAR | 30 | Contract No transaksi |
| 6 | CURRENCY\_CD\_1 | VARCHAR | 5 | Kode Mata Uang 1 |
| 7 | BUY\_SELL\_1 | VARCHAR | 6 | Tanggal pembelian 1 |
| 8 | NOTIONAL\_AMOUNT\_1 | DECIMAL | (8,2) | Amount yang berlaku 1 |
| 9 | MATURITY\_DATE | DATE | 8 | Tanggal jatuh tempo |
| 10 | CONTRACT\_RATE | DATE | 8 | Rate contract |
| 11 | FAIR\_VALUE | VARCHAR | 50 | Value yang disepakati |
| 12 | POTENTIAL\_PL\_USD | VARCHAR | 50 | Harga dalam konversi USD |
| 13 | CURRENCY\_CD\_2 | VARCHAR | 5 | Kode Mata Uang 2 |
| 14 | BUY\_SELL\_2 | VARCHAR | 6 | Tanggal pembelian 2 |
| 15 | NOTIONAL\_AMOUNT\_2 | DECIMAL | (8,2) | Amount yang berlaku 2 |
| 16 | DATAR | VARCHAR | 1000 | Berita acara |
| 17 | GENERATE\_RPT\_STS | VARCHAR | 1 | Status generate report |
| 18 | USR\_CRE | VARCHAR | 15 | User yang melakukan create data |
| 19 | USR\_UPD | VARCHAR | 15 | User yang melakukan update |
| 20 | CRE\_DT | DATETIME | 17 | Tanggal create |
| 21 | UPD\_DT | DATETIME | 17 | Tanggal update |

**Tabel Email Queue**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Nama Field** | **Tipe Data** | **Panjang** | **Keterangan** |
| 1 | QUEUE\_ID | INT | 4 | Queue Id |
| 2 | CUSTOMER\_ID | VARCHAR | 10 | Customer Id |
| 3 | PRODUCT\_ID | VARCHAR | 2 | Product Id |
| 4 | MAIL\_SUBJECT | VARCHAR | 50 | Email Subject |
| 5 | MAIL\_BODY | VARCHAR | 300 | Email Body |
| 6 | MAIL\_STATUS | VARCHAR | 1 | Email Status |
| 7 | RETRY\_COUNT | NUMERIC | (2,0) | Berapa kali di ulang |
| 8 | SENT\_DT | DATETIME | 17 | Tanggal email terkirim |
| 9 | DESCRIPTION | VARCHAR | 200 | Descripsi Email |
| 10 | RETURNED\_ADDRESS | VARCHAR | 50 | Pesan error jika terjadi gagal kirim |
| 11 | USR\_CRE | VARCHAR | 15 | User yang melakukan create data |
| 12 | USR\_UPD | VARCHAR | 15 | User yang melakukan update |
| 13 | CRE\_DT | DATETIME | 17 | Tanggal create |
| 14 | UPD\_DT | DATETIME | 17 | Tanggal update |

**Tabel Email Queue Detail**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Nama Field** | **Tipe Data** | **Panjang** | **Keterangan** |
| 1 | QUEUE\_DETAIL\_ID | VARCHAR | 4 | Id email queue detail |
| 2 | QUEUE\_ID | VARCHAR | 4 | Id email queue |
| 3 | FILE\_ATTACHMENT | VARCHAR | 80 | Path dari file yang akan di kirim |

**STEP V**

**PERANCANGAN BASIS DATA LOGIKAL**

**STEP Vi**

**PERANCANGAN BASIS DATA FISIKAL**