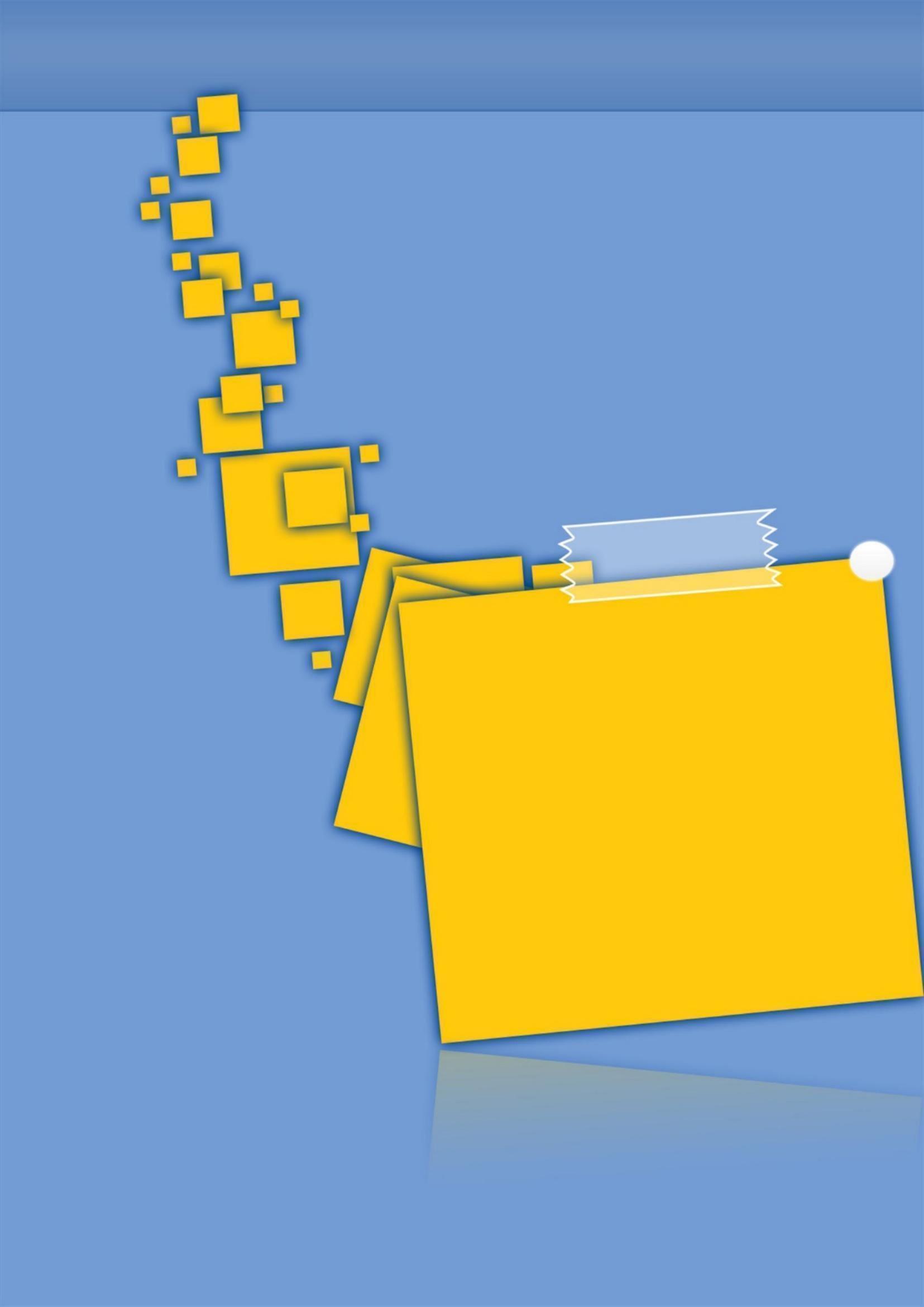
****



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# BAB I PENDAHULUAN

## Logbook Bulan Desember

**LOGBOOK KERJA**

Bulan : Desember

| **Nama Pekerjaan** | **:** | Database Administrator |
| --- | --- | --- |
| **Nama** | **:** | **Radityo Herdana** |
| **No. SPK** | **:** | 02.01/SPK/PPK-PPIG/5/2023 |
| **Bulan** | **:** | Desember 2023 |

| **NO** | **HARI/ TANGGAL** | **WAKTU (WIB)** | **KEGIATAN** | **KATEGORI** | **KET.** |
| --- | --- | --- | --- | --- | --- |
| 1 | Jumat / 01 Desember 2023 | 8.00 - 17.00 | Instalasi hadoop di Windows | Kegiatan Harian |  |
| 2 | Sabtu / 02 Desember 2023 |  |  |  |  |
| 3 | Minggu / 03 Desember 2023 |  |  |  |  |
| 4 | Senin / 04 Desember 2023 | 7.30 - 16.30 | - Menjalankan prosedur insert data ke tabel tmp\_kehadiran\_pegawai | Kegiatan Harian |  |
| 5 | Selasa / 05 Desember 2023 | 7.30 - 16.00 | - Menjalankan prosedur insert data ke tabel tmp\_kehadiran\_pegawai | Kegiatan Harian |  |
| 6 | Rabu / 06 Desember 2023 | 7.30 - 16.30 | - Backup dan Restore DB dev\_presensi (10.10.170.88) | Kegiatan Harian |  |
| 7 | Kamis / 07 Desember 2023 | 8.00 - 16.30 | Instalasi hadoop di linux | Kegiatan Harian |  |
| 8 | Jumat / 08 Desember 2023 | 8.00 - 17.00 | Menyusun dan menjalankan program wordcount dengan library hadoop di Windows | Kegiatan Harian |  |
| 9 | Sabtu / 09 Desember 2023 |  |  |  |  |
| 10 | Minggu / 10 Desember 2023 |  |  |  |  |
| 11 | Senin / 11 Desember 2023 | 8.00 - 16.30 | -Menyusun dan menjalankan program wordcount dengan library hadoop di Windows  -Membuat fungsi fn\_kurang\_jam\_time | Kegiatan Harian |  |
| 12 | Selasa / 12 Desember 2023 | 7.30 - 16.30 | -Instalasi hadoop di linux (Konfigurasi akses user terhadap folder hadoop)  -Membuat fungsi fn\_kurang\_jam\_time | Kegiatan Harian |  |
| 13 | Rabu / 13 Desember 2023 | 8.00 - 16.30 | -Melakukan pengujian fungsi fn\_kurang\_jam\_time | Kegiatan Harian |  |
| 14 | Kamis / 14 Desember 2023 | 7.30 -16.00 | -Melakukan pengujian fungsi fn\_kurang\_jam\_time | Kegiatan Harian |  |
| 15 | Jumat / 15 Desember 2023 | 8.00 - 16.30 | -Melakukan pengujian fungsi fn\_kurang\_jam\_time | Kegiatan Harian |  |
| 16 | Sabtu / 16 Desember 2023 |  |  |  |  |
| 17 | Minggu / 17 Desember 2023 |  |  |  |  |
| 18 | Senin / 18 Desember 2023 | 8.00 - 16.30 | * Presentasi hasil kegiatan DBA (Mei, Juni, Juli, Agustus, September, Oktober, November, Desember) | Kegiatan Harian |  |
| 19 | Selasa / 19 Desember 2023 | 7.30 - 16.30 | * Isi tabel pola\_kerja di db postgre | Kegiatan Harian |  |
| 20 | Rabu / 20 Desember 2023 | 8.00 - 16.30 | * Instal HBase | Kegiatan Harian |  |
| 21 | Kamis / 21 Desember 2023 | 7.30 -16.00 | * Instal Geoserver (JDK 7) | Kegiatan Harian |  |
| 22 | Jumat / 22 Desember 2023 |  | Izin Tidak Masuk Kantor |  |  |
| 23 | Sabtu / 23 Desember 2023 |  |  |  |  |
| 24 | Minggu / 24 Desember 2023 |  |  |  |  |
| 25 | Senin / 25 Desember 2023 |  | Libur Nasional |  |  |
| 26 | Selasa / 26 Desember 2023 |  | Libur Cuti Bersama |  |  |
| 27 | Rabu / 27 Desember 2023 |  |  |  |  |
| 28 | Kamis / 28 Desember 2023 |  |  |  |  |
| 29 | Jumat / 29 Desember 2023 |  |  |  |  |
| 30 | Sabtu / 30 Desember 2023 |  |  |  |  |
| 31 | Minggu / 31 Desember 2023 |  |  |  |  |

| **Catatan:**  Link laporan bulan Desember dapat diakses pada : **https://bit.ly/logbook\_laporan\_bulan\_Desember** |
| --- |

| Cibinong, 14 Desember 2023 | |
| --- | --- |
| Pembimbing | Penanggung Jawab Kegiatan |
|  |  |
| **Arief Donie Prasetya** | **Rika Indriani** |

## Presensi Bulan Desember

**FORM PRESENSI**

| **Nama Pekerjaan** | **:** | Database Administrator |
| --- | --- | --- |
| **Nama** | **:** | **Radityo Herdana** |
| **No. SPK** | **:** | 02.01/SPK/PPK-PPIG/5/2023 |
| **Bulan** | **:** | Desember 2023 |

| **No** | **Hari** | **Tanggal** | **Jam Masuk** | **Jam Pulang** | **Total Jam** | **Paraf** | **Keterangan** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Jumat | 01/12/2023 | 8.00 | 17.00 | 09:00 |  |  |
| 2 | Sabtu | 02/12/2023 |  |  |  |  |  |
| 3 | Minggu | 03/12/2023 |  |  |  |  |  |
| 4 | Senin | 04/12/2023 | 7.30 | 16.30 | 8:00 |  |  |
| 5 | Selasa | 05/12/2023 | 7.30 | 16.30 | 9:00 |  |  |
| 6 | Rabu | 06/12/2023 | 7.30 | 16.30 | 9:00 |  |  |
| 7 | Kamis | 07/12/2023 | 8.00 | 16.30 | 8:30 |  |  |
| 8 | Jumat | 08/12/2023 | 8.00 | 17.00 | 9:00 |  |  |
| 9 | Sabtu | 09/12/2023 |  |  |  |  |  |
| 10 | Minggu | 10/12/2023 |  |  |  |  |  |
| 11 | Senin | 11/12/2023 | 8.00 | 16.30 | 7:30 |  |  |
| 12 | Selasa | 12/12/2023 | 7.30 | 16.00 | 7:30 |  |  |
| 13 | Rabu | 13/12/2023 | 8.00 | 16.30 | 8:30 |  |  |
| 14 | Kamis | 14/12/2023 | 7.30 | 16.00 | 8:30 |  |  |
| 15 | Jumat | 15/12/2023 |  |  |  |  |  |
| 16 | Sabtu | 16/12/2023 |  |  |  |  |  |
| 17 | Minggu | 17/12/2023 |  |  |  |  |  |
| 18 | Senin | 18/12/2023 |  |  |  |  |  |
| 19 | Selasa | 19/12/2023 |  |  |  |  |  |
| 20 | Rabu | 20/12/2023 |  |  |  |  |  |
| 21 | Kamis | 21/12/2023 |  |  |  |  |  |
| 22 | Jumat | 22/12/2023 |  |  |  |  |  |
| 23 | Sabtu | 23/12/2023 |  |  |  |  |  |
| 24 | Minggu | 24/12/2023 |  |  |  |  |  |
| 25 | Senin | 25/12/2023 |  |  |  |  |  |
| 26 | Selasa | 26/12/2023 |  |  |  |  |  |
| 27 | Rabu | 27/12/2023 |  |  |  |  |  |
| 28 | Kamis | 28/12/2023 |  |  |  |  |  |
| 29 | Jumat | 29/12/2023 |  |  |  |  |  |
| 30 | Sabtu | 30/12/2023 |  |  |  |  |  |
| 31 | Minggu | 31/12/2023 |  |  |  |  |  |

**Ketentuan Jam Presensi:**Senin - Kamis ( Masuk : 07.30 , Pulang : 16.00 , Istirahat 1 Jam)  
Jumat ( Masuk : 07.30 , Pulang : 16.30, , Istirahat 1 Jam)

**Ketentuan Jam Presensi Pada bulan Ramadhan:**Senin - Kamis ( Masuk : 08.00 , Pulang : 15.00 , Istirahat 30 Menit)  
Jumat ( Masuk : 08.00 , Pulang : 15.30, , Istirahat 1 Jam)

| Cibinong, 14 Desember 2023 | |
| --- | --- |
|  | Mengetahui, |
| Pegawai, | Pembimbing |
|  |  |
| **Radityo Herdana** | **Arief Donie Prasetya** |

# BAB II HASIL KEGIATAN

## Mempelajari Dan Memahami Database Aplikasi Di BIG

### Database SDM\_NEW

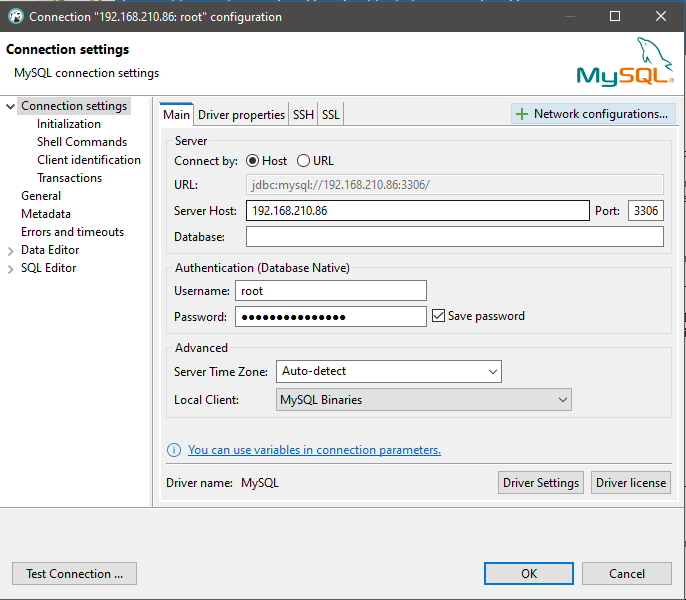
| **table\_catalog** | **table\_schema** | **table\_name** | **table\_type** |
| --- | --- | --- | --- |
| **sdm\_new** | **public** | **rekap\_tunkin** | **BASE TABLE** |
| **sdm\_new** | **public** | **riwayat\_jabatan** | **BASE TABLE** |
| **sdm\_new** | **public** | **riwayat\_organisasi** | **BASE TABLE** |
| **sdm\_new** | **public** | **riwayat\_pangkat** | **BASE TABLE** |
| **sdm\_new** | **public** | **sk\_satminkal** | **BASE TABLE** |
| **sdm\_new** | **public** | **status\_kehadiran** | **BASE TABLE** |
| **sdm\_new** | **public** | **status\_pegawai** | **BASE TABLE** |
| **sdm\_new** | **public** | **status\_perkawinan** | **BASE TABLE** |
| **sdm\_new** | **public** | **tipe\_jabatan** | **BASE TABLE** |
| **sdm\_new** | **public** | **tmp\_oraexp\_pegawaijabatan** | **BASE TABLE** |
| **sdm\_new** | **public** | **wfh** | **BASE TABLE** |
| **sdm\_new** | **public** | **wilayah** | **BASE TABLE** |
| **sdm\_new** | **public** | **agama** | **BASE TABLE** |
| **sdm\_new** | **public** | **aktifitas** | **BASE TABLE** |
| **sdm\_new** | **public** | **atasan\_staf** | **BASE TABLE** |
| **sdm\_new** | **public** | **basemap** | **BASE TABLE** |
| **sdm\_new** | **public** | **berita** | **BASE TABLE** |
| **sdm\_new** | **public** | **cuti** | **BASE TABLE** |
| **sdm\_new** | **public** | **gedung** | **BASE TABLE** |
| **sdm\_new** | **public** | **golongan\_darah** | **BASE TABLE** |
| **sdm\_new** | **public** | **hari\_libur** | **BASE TABLE** |
| **sdm\_new** | **public** | **jabatan** | **BASE TABLE** |
| **sdm\_new** | **public** | **jenis\_aktifitas** | **BASE TABLE** |
| **sdm\_new** | **public** | **jenis\_cuti** | **BASE TABLE** |
| **sdm\_new** | **public** | **jenis\_jabatan** | **BASE TABLE** |
| **sdm\_new** | **public** | **jenis\_kelamin** | **BASE TABLE** |
| **sdm\_new** | **public** | **jenis\_kp** | **BASE TABLE** |
| **sdm\_new** | **public** | **jenis\_os** | **BASE TABLE** |
| **sdm\_new** | **public** | **jenis\_pensiun** | **BASE TABLE** |
| **sdm\_new** | **public** | **kantor** | **BASE TABLE** |
| **sdm\_new** | **public** | **kedudukan\_pegawai** | **BASE TABLE** |
| **sdm\_new** | **public** | **kehadiran** | **BASE TABLE** |
| **sdm\_new** | **public** | **kelas\_tunkin** | **BASE TABLE** |
| **sdm\_new** | **public** | **level\_wilayah** | **BASE TABLE** |
| **sdm\_new** | **public** | **lhkasn** | **BASE TABLE** |
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| **sdm\_new** | **public** | **logbook** | **BASE TABLE** |
| **sdm\_new** | **public** | **mesin\_fp** | **BASE TABLE** |
| **sdm\_new** | **public** | **nko\_nki** | **BASE TABLE** |
| **sdm\_new** | **public** | **organisasi** | **BASE TABLE** |
| **sdm\_new** | **public** | **pangkat** | **BASE TABLE** |
| **sdm\_new** | **public** | **pola\_kerja** | **BASE TABLE** |
| **sdm\_new** | **public** | **pegawai** | **BASE TABLE** |
| **sdm\_new** | **public** | **status\_approval** | **BASE TABLE** |
| **sdm\_new** | **public** | **presensi** | **BASE TABLE** |
| **sdm\_new** | **public** | **bank** | **BASE TABLE** |
| **sdm\_new** | **public** | **pendidikan** | **BASE TABLE** |
| **sdm\_new** | **public** | **perangkat\_mobile** | **BASE TABLE** |
| **sdm\_new** | **public** | **rekap\_keterlambatan** | **BASE TABLE** |
| **sdm\_new** | **public** | **tmp\_jabatan\_pegawai** | **BASE TABLE** |

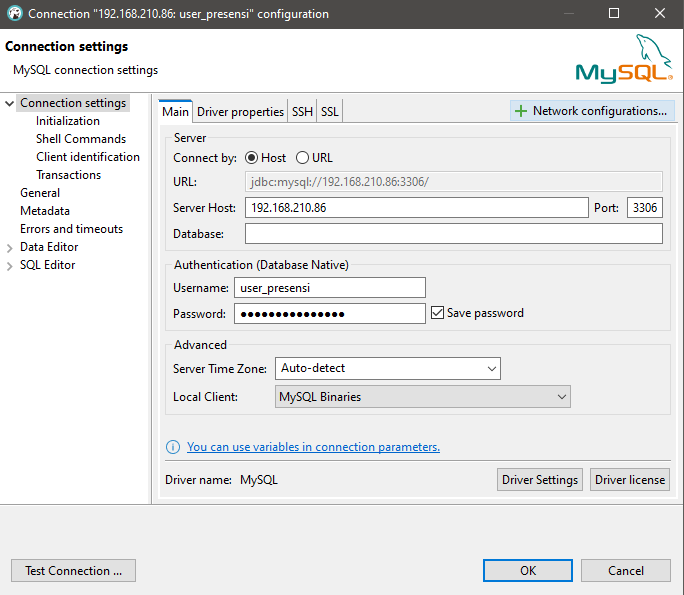
## Melakukan Konfigurasi Database Berdasarkan Desain Dan Kebutuhan Pengguna

### Membuat User Untuk Database MySQL 192.168.210.86

command create user:

| CREATE USER 'root'@'localhost' IDENTIFIED BY 'password'; |
| --- |
| CREATE USER 'user\_presensi'@'localhost' IDENTIFIED BY 'password'; |





## 

## Melakukan Optimasi Performa Database

### Query Absensi Pegawai

| CREATE OR REPLACE FUNCTION public.fn\_kurang\_jam\_time(waktu\_masuk time without time zone, waktu\_pulang time without time zone, tanggal date)  RETURNS time without time zone  LANGUAGE plpgsql  AS $function$  --returns varchar  declare  msg varchar;  msg\_2 varchar;  msg\_3 varchar;  msg\_4 varchar;  msg\_5 time;  kurang\_jam time;  durasi\_min\_perhari\_dA time;  durasi\_min\_perhari\_dB time;  begin  durasi\_min\_perhari\_dA = '08:30:00';  durasi\_min\_perhari\_dB = '09:00:00';  --  --  IF (waktu\_masuk is null and waktu\_pulang is null) THEN  msg := 'case 1';  ELSIF (waktu\_masuk is not null and waktu\_pulang is null) then  msg := 'case 2';    ELSIF (waktu\_masuk is null and waktu\_pulang is not null) THEN  msg := 'case 3';    ELSIF (waktu\_masuk is not null and waktu\_pulang is not null  and extract(isodow from tanggal) in (1, 2, 3, 4, 6, 7) and waktu\_masuk between '16:00:00' and '23:59:59') THEN  msg := 'case 3';    ELSIF (waktu\_masuk is not null and waktu\_pulang is not null  and extract(isodow from tanggal) in (5) and waktu\_masuk between '16:30:00' and '23:59:59') THEN  msg := 'case 3';    ELSIF (waktu\_masuk is not null and waktu\_pulang is not null) THEN  msg := 'case 4';  END IF;    if (msg = 'case 1') then msg\_2 := 'case 1a: kurang jam 07:30';  elsif (msg = 'case 2') then msg\_2 := 'case 2a: kurang jam 07:30';  elsif (msg = 'case 3') then msg\_2 := 'case 3a: kurang jam 07:30';  elsif (msg = 'case 4') then msg\_2 := 'case 4a';  end if;    /\* case waktu\_masuk: jam normal dan jam flexy dan lebih dari jam flexy \*/  if (msg\_2 = 'case 4a' and waktu\_masuk between '00:00:00' and '07:30:01')  then  waktu\_masuk := '07:30:00'::time;  msg\_3 := 'case m3: 01';  elsif (msg\_2 = 'case 4a' and waktu\_masuk between '07:30:00' and '08:00:01')  then msg\_3 := 'case m3: 02';  elsif (msg\_2 = 'case 4a' and waktu\_masuk > '08:00:00' and waktu\_masuk < '12:00:01')  then msg\_3 := 'case m3: 03';  elsif (msg\_2 = 'case 1a: kurang jam 07:30' or msg\_2 = 'case 2a: kurang jam 07:30' or msg\_2 = 'case 3a: kurang jam 07:30')  then msg\_3 := 'case m3: kurang jam 07:30';  elsif (msg\_2 = 'case 4a' and waktu\_masuk > '12:00:00')  then msg\_3 := 'case m3: 05';  elseif (msg\_2 = 'case 3a: kurang jam 07:30')  then msg\_3 := 'case m3: kurang jam 07:30';  end if;    /\* case waktu\_pulang: lebih dari jam flexy \*/  /\* dan waktu\_masuk: lebih dari jam pulang\*/  if (extract(isodow from tanggal) in (1, 2, 3, 4, 6, 7) and waktu\_masuk > '08:00:00'  and waktu\_pulang between '16:00:00' and '23:59:59')  then  waktu\_pulang := '16:30:00'::time;  elsif (extract(isodow from tanggal) in (5) and waktu\_masuk > '08:00:00'  and waktu\_pulang between '16:30:00' and '23:59:59')  then  waktu\_pulang := '17:00:00'::time;  elsif (extract(isodow from tanggal) in (1, 2, 3, 4, 6, 7) and waktu\_masuk between '07:30:00' and '08:00:00'  and waktu\_pulang between '16:30:00' and '23:59:59')  then  waktu\_pulang := '16:30:00'::time;  elsif (extract(isodow from tanggal) in (5) and waktu\_masuk between '07:30:00' and '08:00:00'  and waktu\_pulang between '17:00:00' and '23:59:59')  then  waktu\_pulang := '17:00:00'::time;    end if;      -- untuk hari: senin, selasa, rabu, kamis  if (extract(isodow from tanggal) in (1, 2, 3, 4, 6, 7)) then  if (msg\_3 = 'case m3: 01' and waktu\_pulang - waktu\_masuk >= durasi\_min\_perhari\_dA)  then  msg\_5 := '00:00:00'::time;  --msg\_4 := 'case m4: durasi kerja memenuhi (non flexy)';  elseif (msg\_3 = 'case m3: 01' and waktu\_pulang - waktu\_masuk < durasi\_min\_perhari\_dA)  then  kurang\_jam := durasi\_min\_perhari\_dA - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := concat('case m4: durasi kerja tidak memenuhi (non flexy)', ': ', kurang\_jam, ' jam:menit:detik') ;  elseif (msg\_3 = 'case m3: 02' and waktu\_pulang - waktu\_masuk >= durasi\_min\_perhari\_dA)  then  msg\_5 := '00:00:00'::time;  msg\_4 := 'case m4: durasi kerja memenuhi (flexy)';  elseif (msg\_3 = 'case m3: 02' and waktu\_pulang - waktu\_masuk < durasi\_min\_perhari\_dA)  then  kurang\_jam := durasi\_min\_perhari\_dA - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := concat('case m4: durasi kerja tidak memenuhi (flexy)', ': ', kurang\_jam, ' jam:menit:detik') ;  elseif (msg\_3 = 'case m3: 03' and waktu\_pulang - waktu\_masuk >= durasi\_min\_perhari\_dA)  then  msg\_5 := '00:00:00'::time;  --msg\_4 := 'case m4: durasi kerja memenuhi (> flexy)';  elseif (msg\_3 = 'case m3: 03' and waktu\_pulang - waktu\_masuk < durasi\_min\_perhari\_dA)  then  kurang\_jam := durasi\_min\_perhari\_dA - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := concat('case m4: durasi kerja tidak memenuhi (> flexy)', ': ', kurang\_jam, ' jam:menit:detik') ;  elseif (msg\_3 = 'case m3: kurang jam 07:30')  then  msg\_5 := '07:30:00'::time;  --msg\_4 := 'case m4: durasi kurang jam 07:30';  elseif (msg\_3 = 'case m3: 05')  then  --msg\_5 := '07:30:00'::time;  kurang\_jam := durasi\_min\_perhari\_dA - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := 'case m4: durasi kurang jam 07:30';  end if;  end if;    -- untuk hari: jumat  if (extract(isodow from tanggal) in (5)) then  if (msg\_3 = 'case m3: 01' and waktu\_pulang - waktu\_masuk >= durasi\_min\_perhari\_dB)  then  msg\_5 := '00:00:00'::time;  --msg\_4 := 'case m4: durasi kerja memenuhi (non flexy)';  elseif (msg\_3 = 'case m3: 01' and waktu\_pulang - waktu\_masuk < durasi\_min\_perhari\_dB)  then  kurang\_jam := durasi\_min\_perhari\_dB - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := concat('case m4: durasi kerja tidak memenuhi (non flexy)', ': ', kurang\_jam, ' jam:menit:detik') ;  elseif (msg\_3 = 'case m3: 02' and waktu\_pulang - waktu\_masuk >= durasi\_min\_perhari\_dB)  then  msg\_5 := '00:00:00'::time;  msg\_4 := 'case m4: durasi kerja memenuhi (flexy)';  elseif (msg\_3 = 'case m3: 02' and waktu\_pulang - waktu\_masuk < durasi\_min\_perhari\_dB)  then  kurang\_jam := durasi\_min\_perhari\_dB - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := concat('case m4: durasi kerja tidak memenuhi (flexy)', ': ', kurang\_jam, ' jam:menit:detik') ;  elseif (msg\_3 = 'case m3: 03' and waktu\_pulang - waktu\_masuk >= durasi\_min\_perhari\_dB)  then  msg\_5 := '00:00:00'::time;  --msg\_4 := 'case m4: durasi kerja memenuhi (> flexy)';  elseif (msg\_3 = 'case m3: 03' and waktu\_pulang - waktu\_masuk < durasi\_min\_perhari\_dB)  then  kurang\_jam := durasi\_min\_perhari\_dB - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := concat('case m4: durasi kerja tidak memenuhi (> flexy)', ': ', kurang\_jam, ' jam:menit:detik') ;  elseif (msg\_3 = 'case m3: kurang jam 07:30')  then  msg\_5 := '07:30:00'::time;  --msg\_4 := 'case m4: durasi kurang jam 07:30';  elseif (msg\_3 = 'case m3: 05')  then  --msg\_5 := '07:30:00'::time;  kurang\_jam := durasi\_min\_perhari\_dB - (waktu\_pulang - waktu\_masuk);  msg\_5 := kurang\_jam;  --msg\_4 := 'case m4: durasi kurang jam 07:30';  end if;  end if;    return msg\_5;  END;  $function$  ; |
| --- |

## Melakukan Backup, Restore Dan Monitoring Database

### Restore Database dev\_presensi\_v2\_big

Source Database: 10.10.170.88

Target Database: 192.168.210.86

command restore database:

| mysql -u root -p -h 192.168.210.86 -P 3306 dev\_presensi\_v2\_big < E:\192.168.210.86\dump-dev\_presensi\_v2\_big-202312121011.sql |
| --- |

## 

## Memastikan Database Dapat Diimplementasikan Dengan Baik

### Membuat Koneksi Remote Ke Database

command:

| ufw allow mysql |
| --- |
| ufw allow from 192.168.1.12 to any port 3306 |

## Melaksanakan Kegiatan Lain Sesuai Penugasan Pimpinan Pusat Pengelolaan Dan Penyebarluasan Informasi Geospasial

### Instalasi Hadoop

Command Instalasi:

| Sudo apt-get update |
| --- |
| Java -version |
| Sudo addgroup hadoop |
| Sudo adduser –ingroup Hadoop hadoopusr |
| Sudo apt-get install ssh |
| Which ssh |
| Which sshd |
| Su hadoopusr |
| Ssh-keygen -t rsa -P “” |
| cat $HOME/.ssh/id\_rsa.pub >> $HOME/.ssh/authorized\_keys |
| Ssh localhost |
| wget http://mirrors.sonic.net/apache/hadoop/common/hadoop-2.6.0/hadoop-2.6.0.tar.gz |
| tar xvzf hadoop-2.6.0.tar.gz |
| sudo mv \* /usr/local/hadoop |
| sudo adduser hadoopusr sudo |
| sudo mv \* /usr/local/hadoop |
| sudo chown -R hadoopusr:hadoop /usr/local/hadoop |
| update-alternatives --config java |
| vi ~/.bashrc |
| export JAVA\_HOME=/usr/lib/jvm/java-7-openjdk-amd64  export HADOOP\_INSTALL=/usr/local/hadoop  export PATH=$PATH:$HADOOP\_INSTALL/bin  export PATH=$PATH:$HADOOP\_INSTALL/sbin  export HADOOP\_MAPRED\_HOME=$HADOOP\_INSTALL  export HADOOP\_COMMON\_HOME=$HADOOP\_INSTALL  export HADOOP\_HDFS\_HOME=$HADOOP\_INSTALL  export YARN\_HOME=$HADOOP\_INSTALL  export HADOOP\_COMMON\_LIB\_NATIVE\_DIR=$HADOOP\_INSTALL/lib/native  export HADOOP\_OPTS="-Djava.library.path=$HADOOP\_INSTALL/lib" |
| vi /usr/local/hadoop/etc/hadoop/hadoop-env.sh |
| export JAVA\_HOME=/usr/lib/jvm/java-1.8-openjdk-amd64 |
| start-all.sh |