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```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: postgres
Password for user postgres:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

postgres=# CREATE ROLE mahasiswa WITH LOGIN PASSWORD 'mahasiswapass';
ERROR: role "mahasiswa" already exists
postgres=# CREATE ROLE admin WITH LOGIN PASSWORD 'adminpass';
ERROR: role "admin" already exists
postgres=#
```

```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: mahasiswa
Password for user mahasiswa:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
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page "Notes for Windows users" for details.
Type "help" for help.

postgres=> SELECT session_user, current_user;
 session_user | current_user
-----+-----
 mahasiswa   | mahasiswa
(1 row)

postgres=> |
```

```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: admin
Password for user admin:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
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        page "Notes for Windows users" for details.
Type "help" for help.

postgres=> SELECT session_user, current_user;
 session_user | current_user
-----+-----
      admin   |      admin
(1 row)

postgres=> |
```

[illegible]

```
postgres-2024-10-11_143130.log  player.tscn  postgresql.conf
File Edit View
#synchronize_seqscans = on

# - Other Platforms and Clients -

#transform_null_equals = off

#-----
# ERROR HANDLING
#-----

#exit_on_error = off          # terminate session on any error?
#restart_after_crash = on     # reinitialize after backend crash?
#data_sync_retry = off       # retry or panic on failure to fsync
                             # data?
                             # (change requires restart)
#recovery_init_sync_method = fsync  # fsync, syncfs (Linux 5.8+)

#-----
# CONFIG FILE INCLUDES
#-----

# These options allow settings to be loaded from files other than the
# default postgresql.conf. Note that these are directives, not variable
# assignments, so they can usefully be given more than once.

#include_dir = '.'            # include files ending in '.conf' from
                             # a directory, e.g., 'conf.d'
#include_if_exists = '.'      # include file only if it exists
#include = '.'                # include file

#-----
# CUSTOMIZED OPTIONS
#-----

# Add settings for extensions here

ssl=on
ssl_cert_file= 'server.crt'
ssl_key_file= 'server.key'
```

```
SQL Shell (psql)
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Username [postgres]: postgres
Password for user postgres:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
        8-bit characters might not work correctly. See psql reference
        page "Notes for Windows users" for details.
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postgres=# SHOW config_file;
               config_file
-----
C:/Program Files/PostgreSQL/16/data/postgresql.conf
(1 row)

postgres=# |
```

```
postgresql-2024-10-11_143130.log  player.tscn  postgresql.conf  pg_hba.conf
File Edit View
# vi EXECUTE SELECT pg_timezone_names();
#
# -----
# Put your actual configuration here
# -----
#
# If you want to allow non-local connections, you need to add more
# "host" records. In that case you will also need to make PostgreSQL
# listen on a non-local interface via the listen_addresses
# configuration parameter, or via the -i or -h command line switches.

# TYPE DATABASE USER ADDRESS METHOD

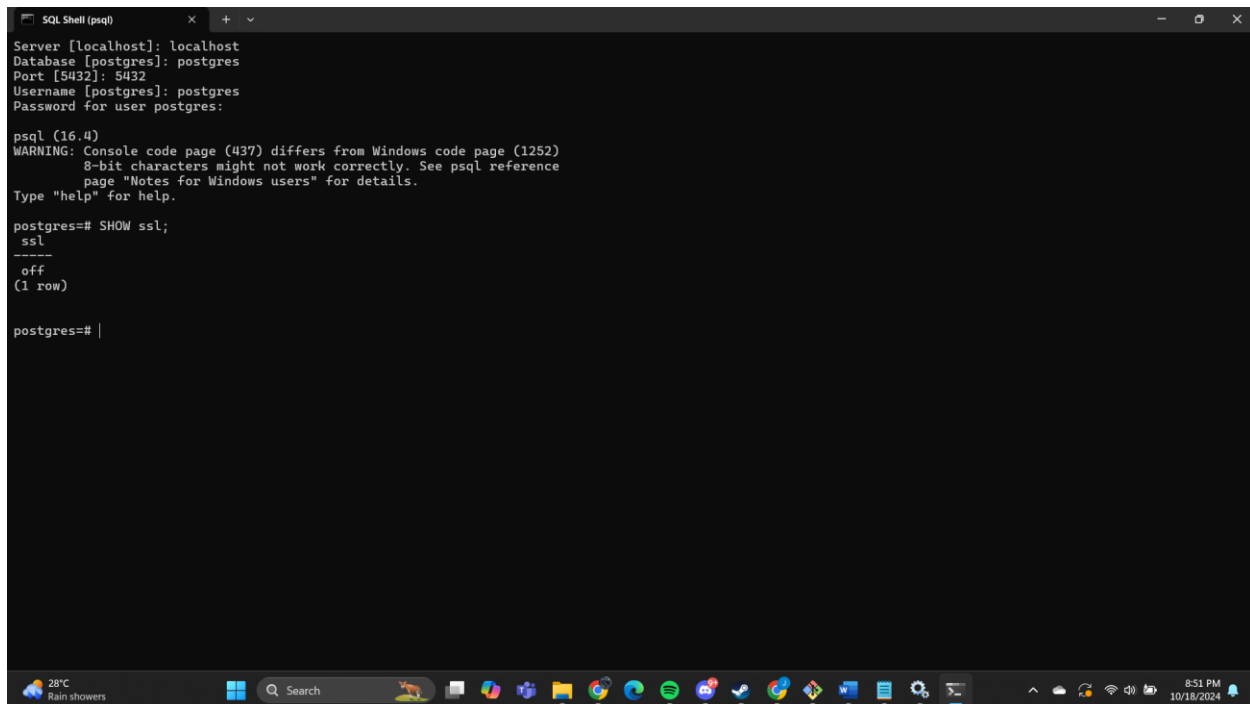
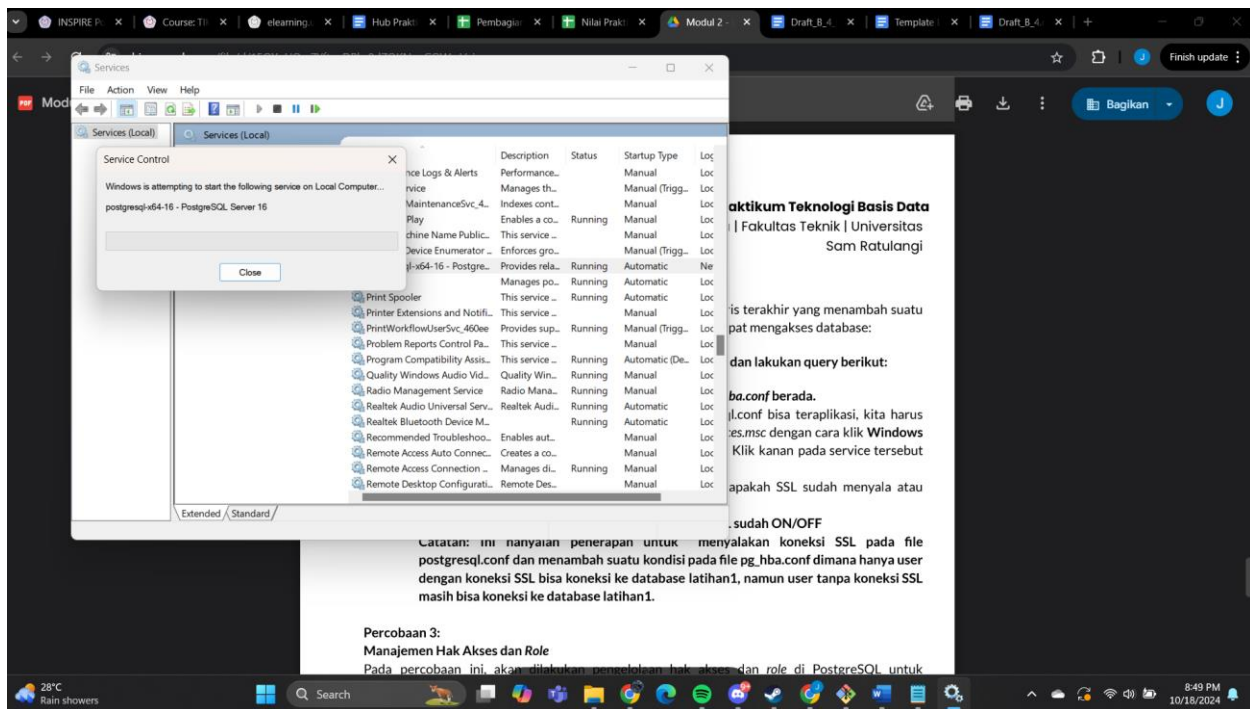
# "local" is for Unix domain socket connections only
local all all scram-sha-256
# IPv4 local connections:
host all all 127.0.0.1/32 scram-sha-256
# IPv6 local connections:
host all all ::1/128 scram-sha-256
# Allow replication connections from localhost, by a user with the
# replication privilege.
local replication all scram-sha-256
host replication all 127.0.0.1/32 scram-sha-256
host replication all ::1/128 scram-sha-256
hostssl latihan1 all 0.0.0.0/0 cert
```

```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: postgres
Password for user postgres:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

postgres=# SHOW hba_file;
          hba_file
-----
C:/Program Files/PostgreSQL/16/data/pg_hba.conf
(1 row)

postgres=#
```



```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: postgres
Password for user postgres:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

postgres=# SHOW ssl;
ssl
-----
off
(1 row)

postgres=# \c latihan1
You are now connected to database "latihan1" as user "postgres".
latihan1=# SET search_path TO toko_online;
SET
latihan1=# GRANT SELECT ON TABLE customers TO mahasiswa;
GRANT
latihan1=# GRANT ALL PRIVILEGES ON TABLE orders TO admin;
GRANT
latihan1=# GRANT USAGE ON SCHEMA toko_online TO mahasiswa;
GRANT
latihan1=# GRANT USAGE ON SCHEMA toko_online TO admin;
GRANT
latihan1=# CREATE ROLE manager WITH LOGIN;
CREATE ROLE
latihan1=# GRANT SELECT, INSERT ON ALL TABLES IN SCHEMA toko_online TO manager;
GRANT
latihan1=# GRANT manager TO mahasiswa;
GRANT ROLE
latihan1=# |
```

```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: mahasiswa
Password for user mahasiswa:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

postgres=> \c latihan1;
You are now connected to database "latihan1" as user "mahasiswa".
latihan1=> SET search_path TO toko_online;
SET
latihan1=> SELECT * FROM customers;
 customer_id | customer_name | address | contact
-----
C001         | BDAVIS        | Boston  | 650.551.4876
C002         | SSTEPHEN      | ST.Louis | 650.501.9321
C003         | DCARTER       | California | 650.507.6632
(3 rows)

latihan1=> INSERT INTO customers (customer_id, customer_name, address, contact) VALUES ('C004', 'JJONES', 'New York', '555.123.4567');
ERROR: syntax error at or near "York"
LINE 1: ... address, contact) VALUES ('C004', 'JJONES', 'New York', '55...
^

latihan1=> INSERT INTO customers (customer_id, customer_name, address, contact) VALUES ('C004', 'JJONES', 'New York', '5
55.123.4567');
INSERT 0 1
latihan1=> DELETE FROM customers WHERE customer_id = 'C004';
latihan1> ;
latihan1> ;
latihan1> );
latihan1> DELETE FROM customers WHERE customer_id = 'C004';
latihan1> 2
latihan1> A
latihan1> <
latihan1> end
latihan1> DELETE FROM customers WHERE customer_id = 'C004';
```

```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: mahasiswa
Password for user mahasiswa:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
        8-bit characters might not work correctly. See psql reference
        page "Notes for Windows users" for details.
Type "help" for help.

postgres=> \c latihan1
You are now connected to database "latihan1" as user "mahasiswa".
latihan1=> SET search_path TO toko_online;
SET
latihan1=> DELETE FROM customers WHERE customer_id = 'C004';
ERROR: permission denied for table customers
latihan1=> |
```

```
SQL Shell (psql)
Server [localhost]: localhost
Database [postgres]: postgres
Port [5432]: 5432
Username [postgres]: admin
Password for user admin:

psql (16.4)
WARNING: Console code page (437) differs from Windows code page (1252)
        8-bit characters might not work correctly. See psql reference
        page "Notes for Windows users" for details.
Type "help" for help.

postgres=> \c latihan1
You are now connected to database "latihan1" as user "admin".
latihan1=> SET search_path TO toko_online;
SET
latihan1=> INSERT INTO orders (order_id, customer_id, commodity_id, units, total_cost) VALUES ('R004', 'C001', 'M002', 10, 30);
INSERT 0 1
latihan1=> DELETE FROM orders WHERE order_id = 'R004';
DELETE 1
latihan1=> |
```