

# **SISTEM DATABASE II**

## **(SDB2-02)**



**Disusun Oleh:**

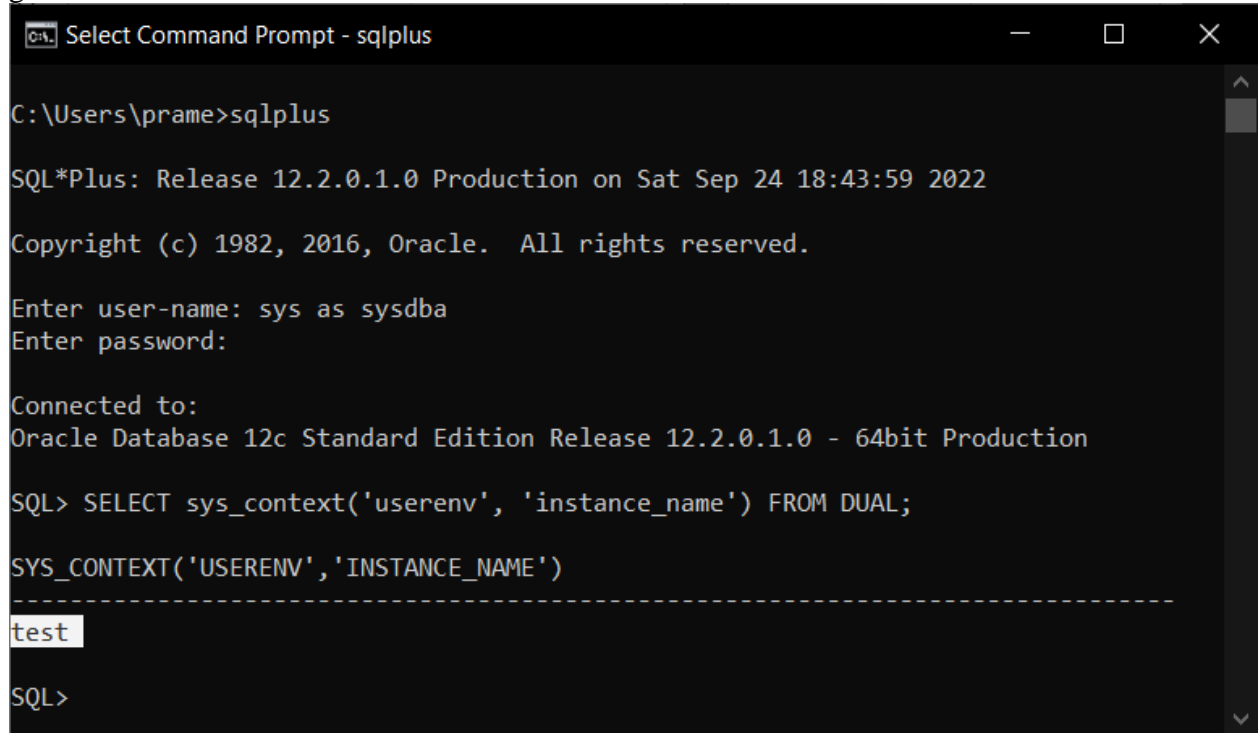
**Prames Ray Lopian - 140810210059**

**PROGRAM STUDI S-1 TEKNIK INFORMATIKA**  
**FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**  
**UNIVERSITAS PADJADJARAN**  
**JATINANGOR**

**2022**

1. Create User:

- a. Cek SID anda terlebih dahulu dengan menggunakan Command Prompt seperti gambar dibawah:



```
C:\Users\prame>sqlplus

SQL*Plus: Release 12.2.0.1.0 Production on Sat Sep 24 18:43:59 2022

Copyright (c) 1982, 2016, Oracle. All rights reserved.

Enter user-name: sys as sysdba
Enter password:

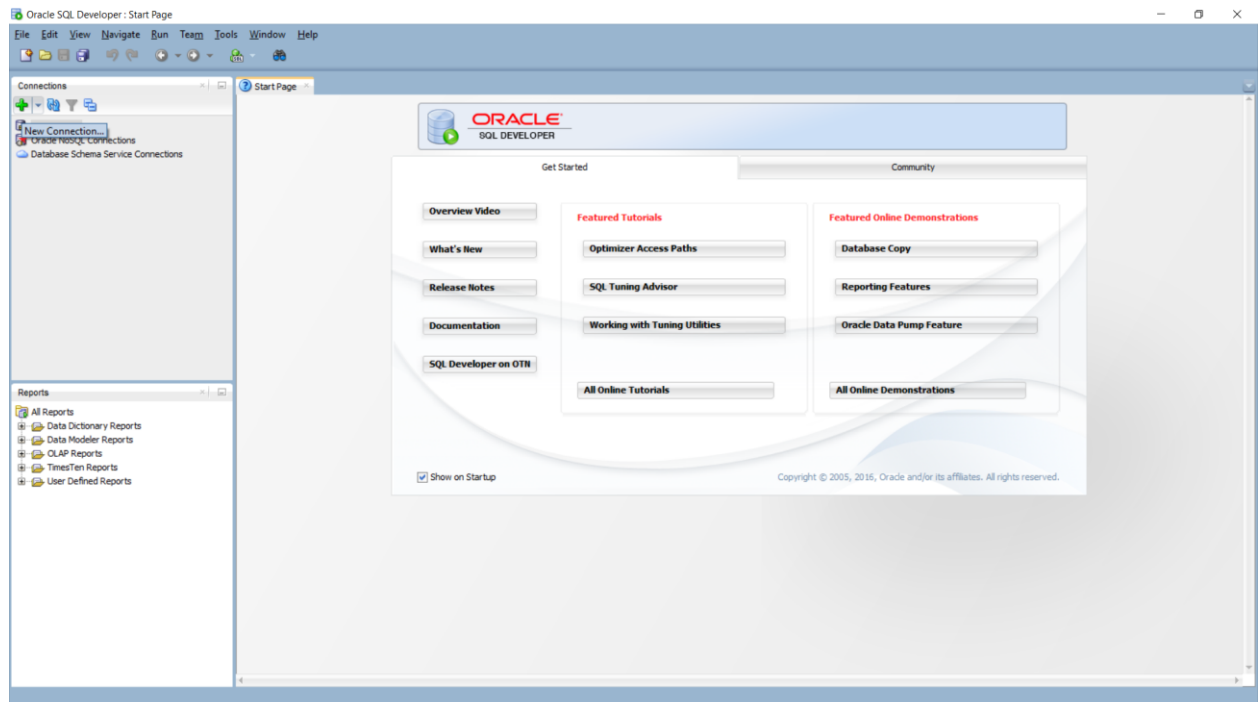
Connected to:
Oracle Database 12c Standard Edition Release 12.2.0.1.0 - 64bit Production

SQL> SELECT sys_context('userenv', 'instance_name') FROM DUAL;

SYS_CONTEXT('USERENV','INSTANCE_NAME')
-----
test

SQL>
```

- b. Lalu anda harus membuat Connection terlebih dahulu:



New / Select Database Connection

Connection Name	Connection Details
pramesdb	sys as sysdba@//local...

Connection Name: testdb  
 Username: sys as sysdba  
 Password: .....

☐ Save Password ☒ Connection Color

Oracle

Connection Type: Basic Role: default

Hostname: localhost  
 Port: 1521  
☒ SID: test  
☐ Service name

☐ OS Authentication ☐ Kerberos Authentication

Status: Success

- c. Lalu anda bisa langsung membuat User Baru menggunakan nama singkat anda:  
**SELECT \* FROM ALL\_USERS;**

Oracle SQL Developer: C:\Users\prame\Documents\PRAMES\PERKULIAHAN\SEMESTER3\Sistem Database II\Week3\TUGAS\pramesdb.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

- pramesdb
- Oracle NoSQL Connections
- Database Schema Service Connections

Reports

- All Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

pramesdb.sql

SQL Worksheet: History

Worksheet Query Builder

```
SELECT * FROM ALL_USERS;
```

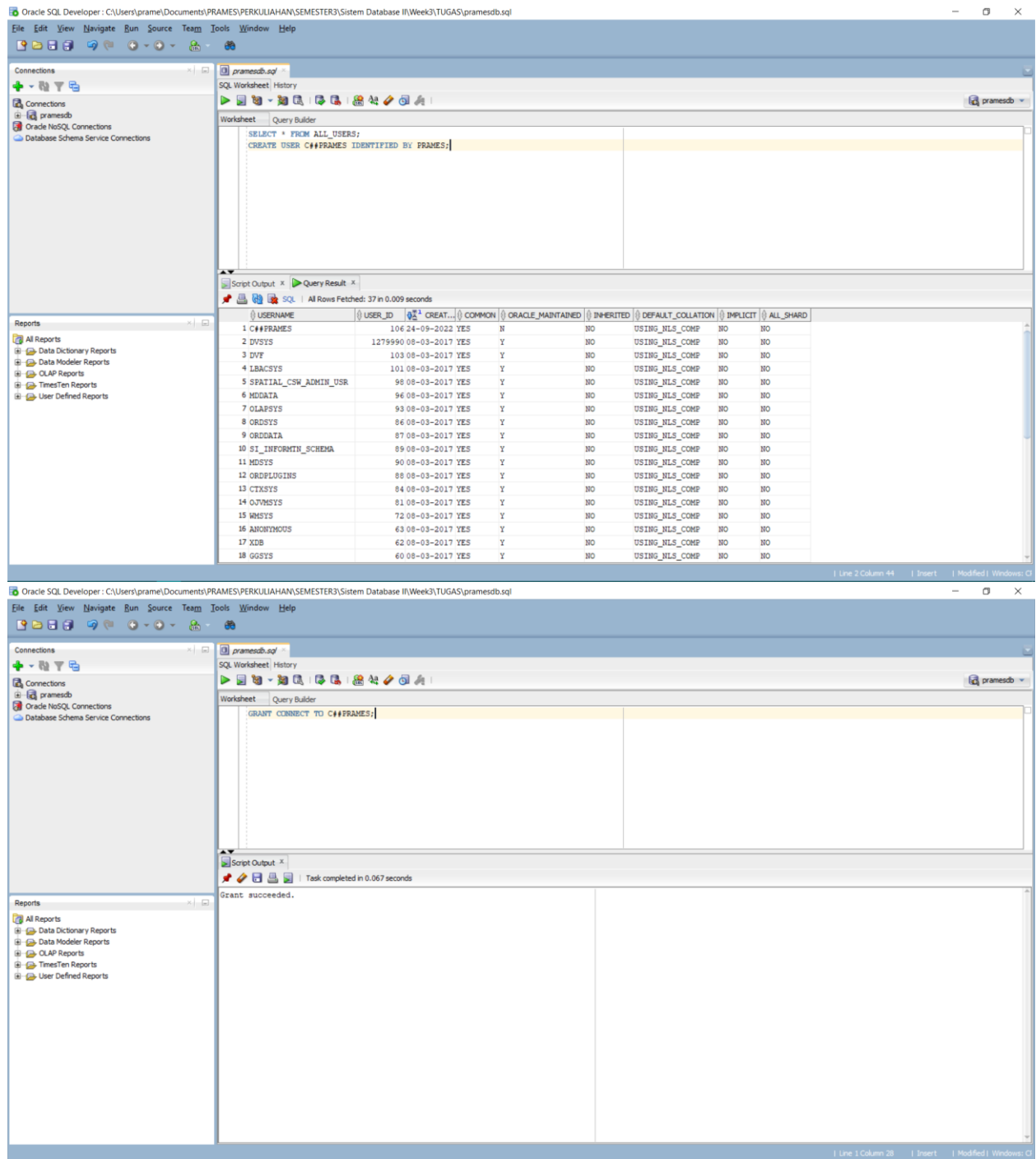
Query Result

All Rows Fetched: 36 in 0.005 seconds

USER_NAME	USER_ID	CREATED	COMMON	ORACLE_MAINTAINED	INHERITED	DEFAULT_COLLATION	IMPLICIT	ALL_SHARD
1 SYS	0	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
2 AUDSYS	8	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
3 SYSTEM	9	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
4 SYSBACKUP	2147483617	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
5 SYSDBG	2147483618	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
6 SYSDBA	2147483619	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
7 SYSRAC	2147483620	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
8 OUTLN	13	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
9 XSDWILL	2147483638	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
10 GSNADMIN_INTERNAL	21	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
11 GMSUSER	22	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
12 DIP	23	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
13 REMOTE_SCHEDULER_AGENT	34	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
14 DBFWUSER	35	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
15 ORACLE_OCM	39	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
16 SYSWMF	46	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
17 DBSNMP	54	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
18 APPQOSSYS	55	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
19 GSNCATUSER	59	08-03-2017	YES	Y	NO	USING_NLS_COMP	NO	NO
20 ...	...	...	...	...	...	...	...	...

Line 1 Column 25 | Insert | Modified | Windows: C3

**CREATE USER C##<username> IDENTIFIED BY <password>;**

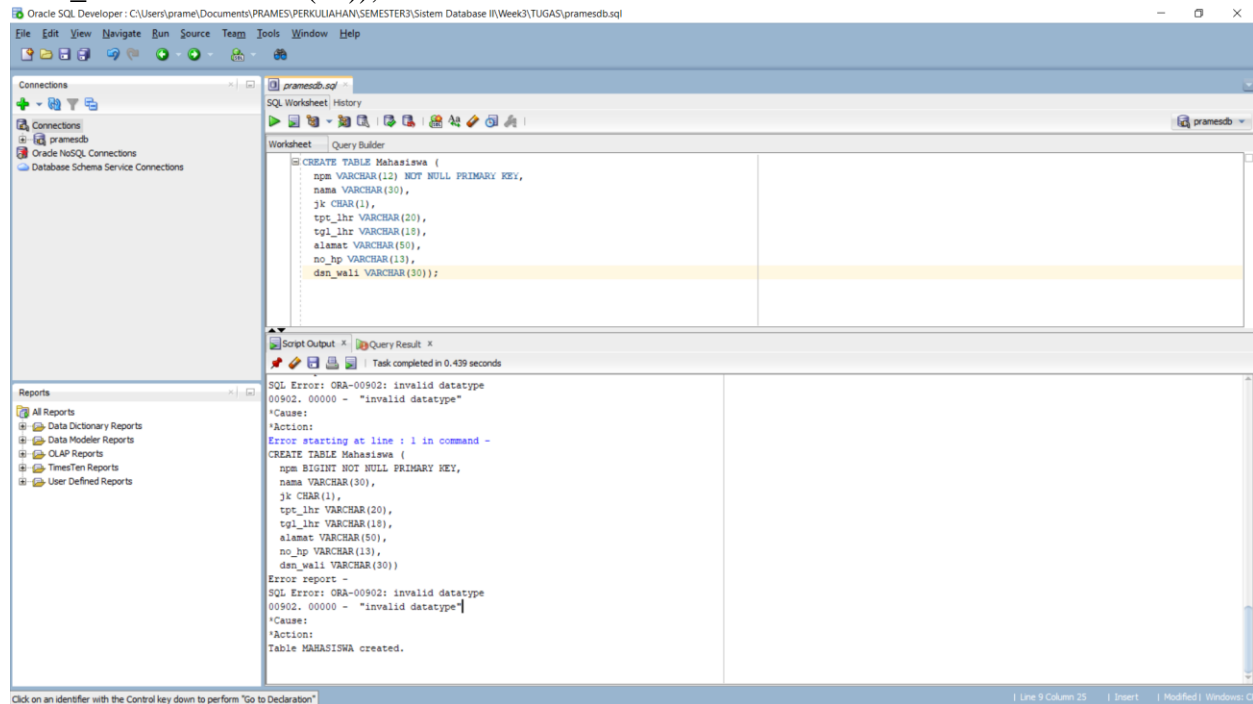


## 2. Create Table:

### a. Mahasiswa:

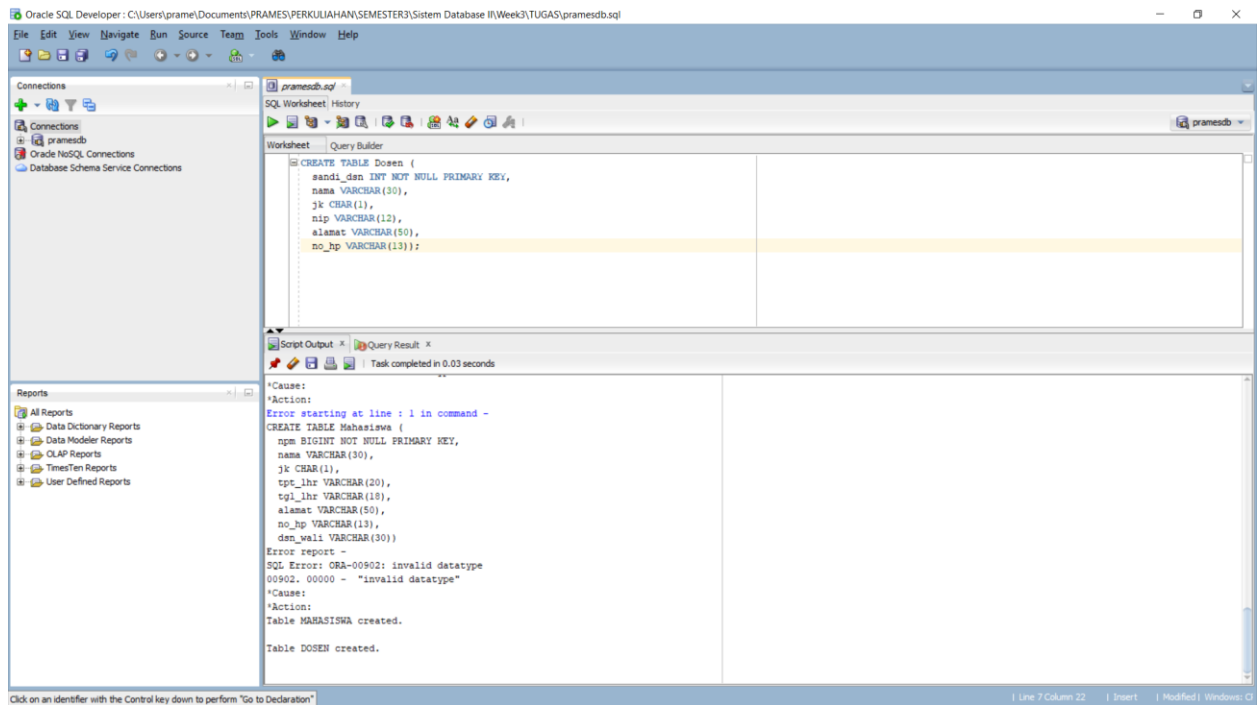
```
CREATE TABLE Mahasiswa (
  npm VARCHAR(12) NOT NULL PRIMARY KEY,
  nama VARCHAR(30),
  jk CHAR(1),
```

```
tpt_lhr VARCHAR(20),
tgl_lhr VARCHAR(18),
alamat VARCHAR(50),
no_hp VARCHAR(13),
dsn_wali VARCHAR(30));
```

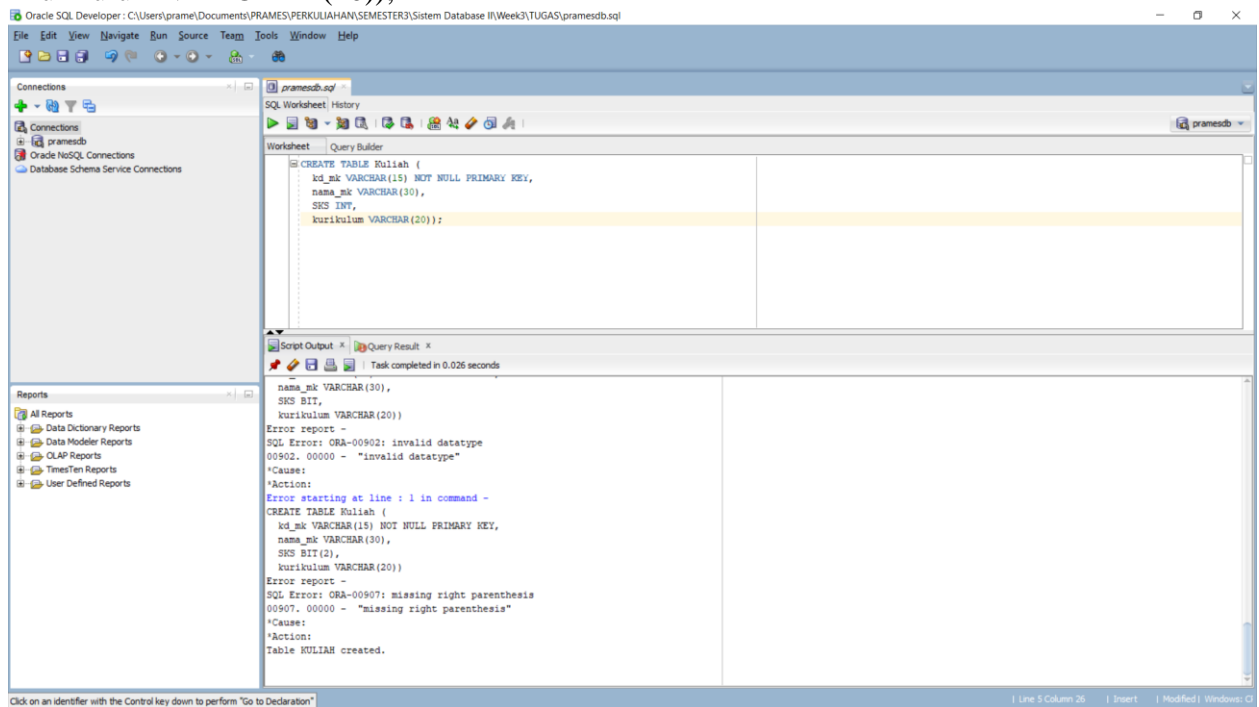


b. Dosen:

```
CREATE TABLE Dosen (
  sandi_dsn VARCHAR(10) NOT NULL PRIMARY KEY,
  nama VARCHAR(50),
  jk CHAR(1),
  nip VARCHAR(12),
  alamat VARCHAR(50),
  no_hp VARCHAR(13));
```

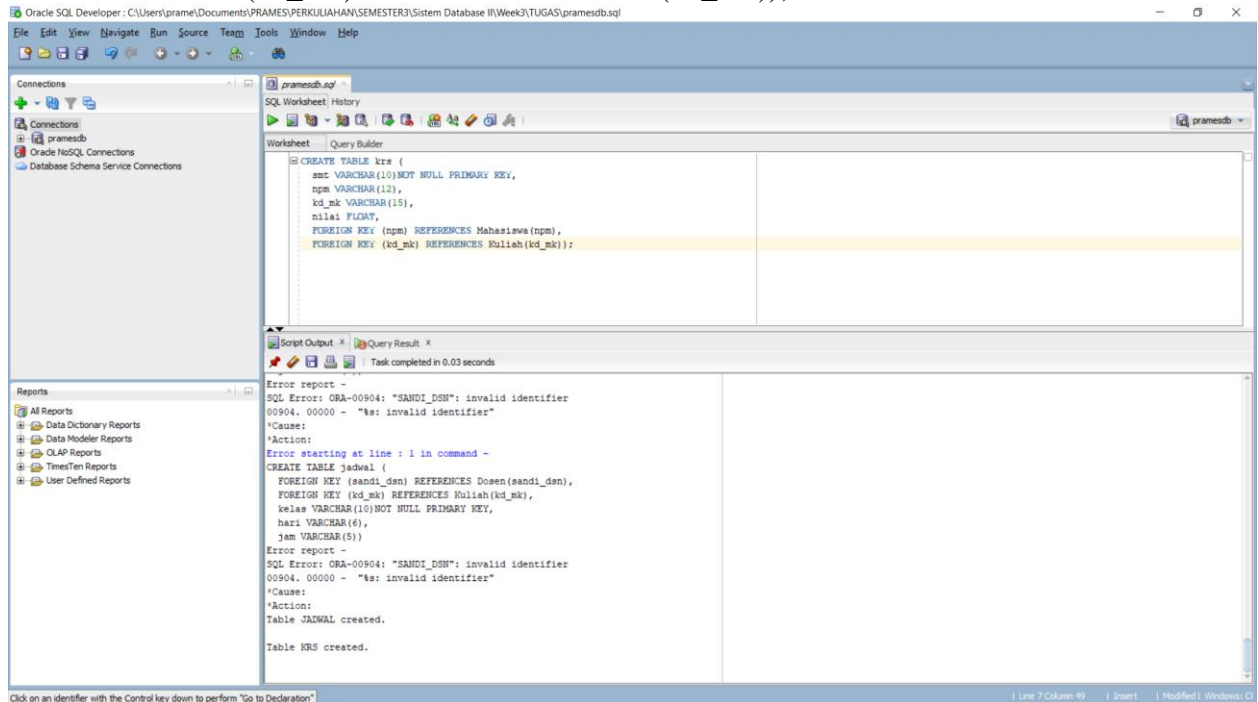


- c. Kuliah:
- ```
CREATE TABLE Kuliah (
  kd_mk VARCHAR(15) NOT NULL PRIMARY KEY,
  nama_mk VARCHAR(30),
  SKS INT,
  kurikulum VARCHAR(20));
```



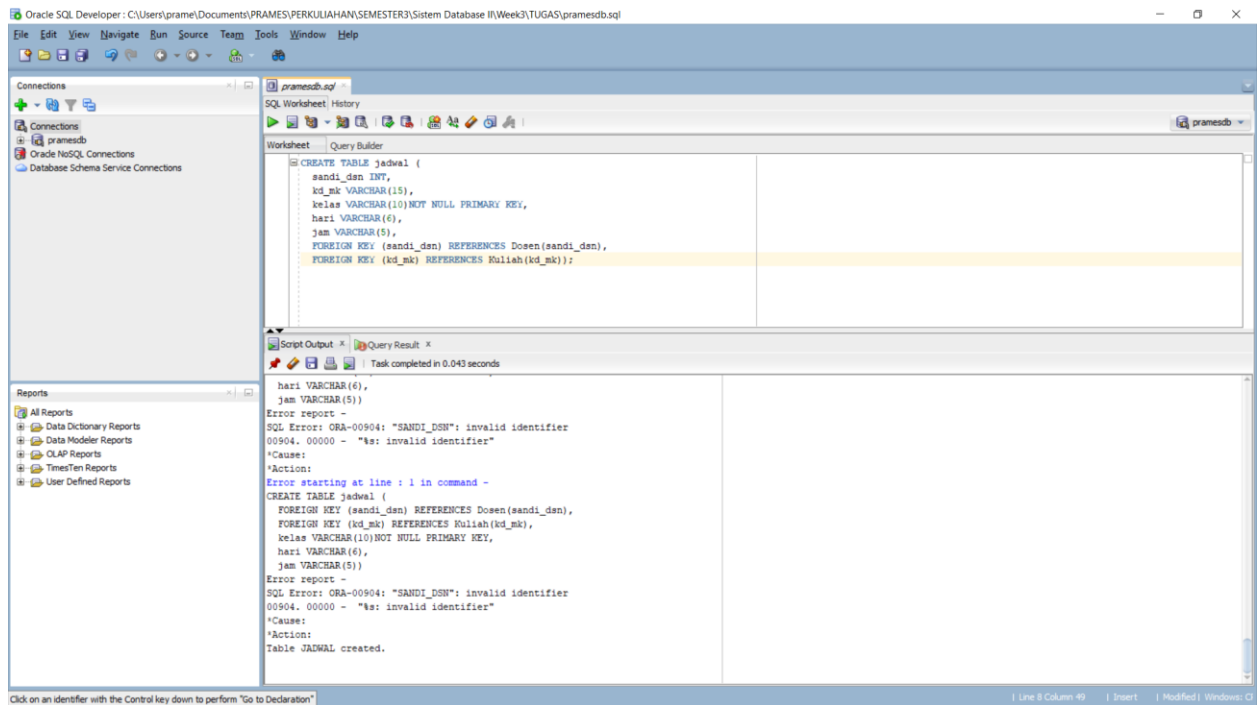
- d. Krs:
- ```
CREATE TABLE krs (
```

```
smt VARCHAR(10) NOT NULL PRIMARY KEY,
npm VARCHAR(12),
kd_mk VARCHAR(15),
nilai FLOAT,
FOREIGN KEY (npm) REFERENCES Mahasiswa(npm),
FOREIGN KEY (kd_mk) REFERENCES Kuliah(kd_mk));
```



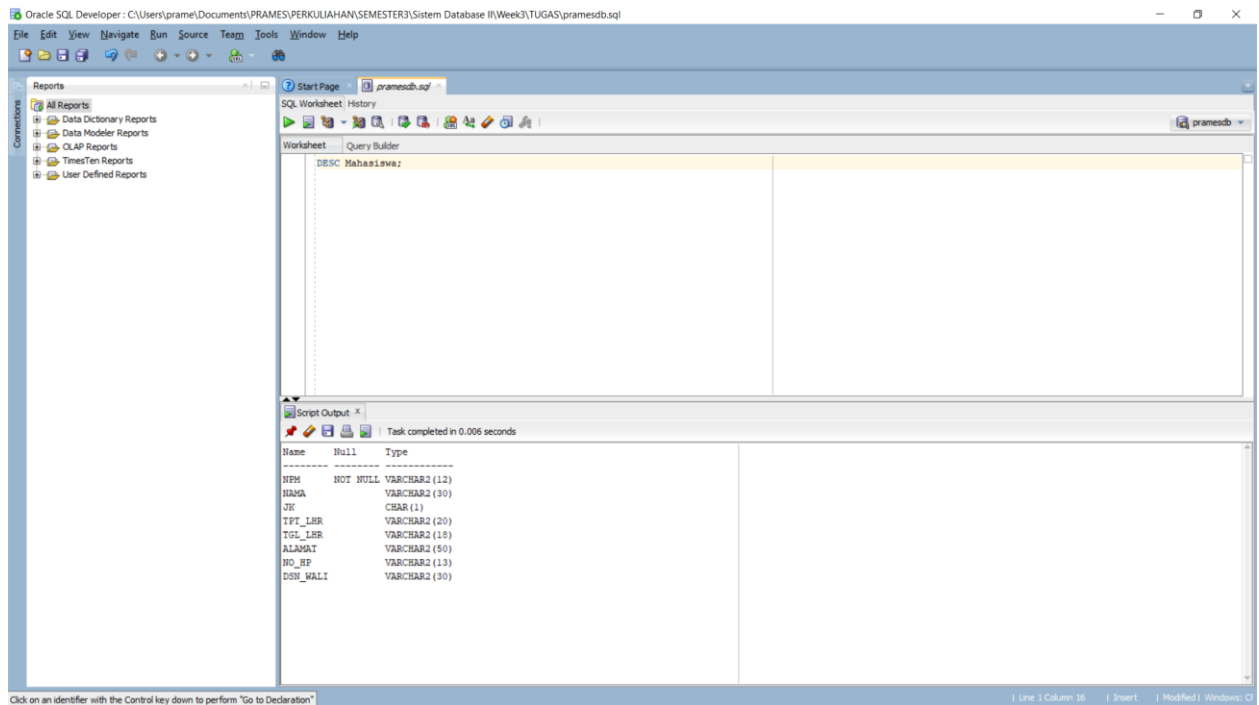
e. Jadwal:

```
CREATE TABLE jadwal (
  sandi_dsn VARCHAR(10),
  kd_mk VARCHAR(15),
  kelas VARCHAR(10) NOT NULL PRIMARY KEY,
  hari VARCHAR(6),
  jam VARCHAR(5),
  FOREIGN KEY (sandi_dsn) REFERENCES Dosen(sandi_dsn),
  FOREIGN KEY (kd_mk) REFERENCES Kuliah(kd_mk));
```



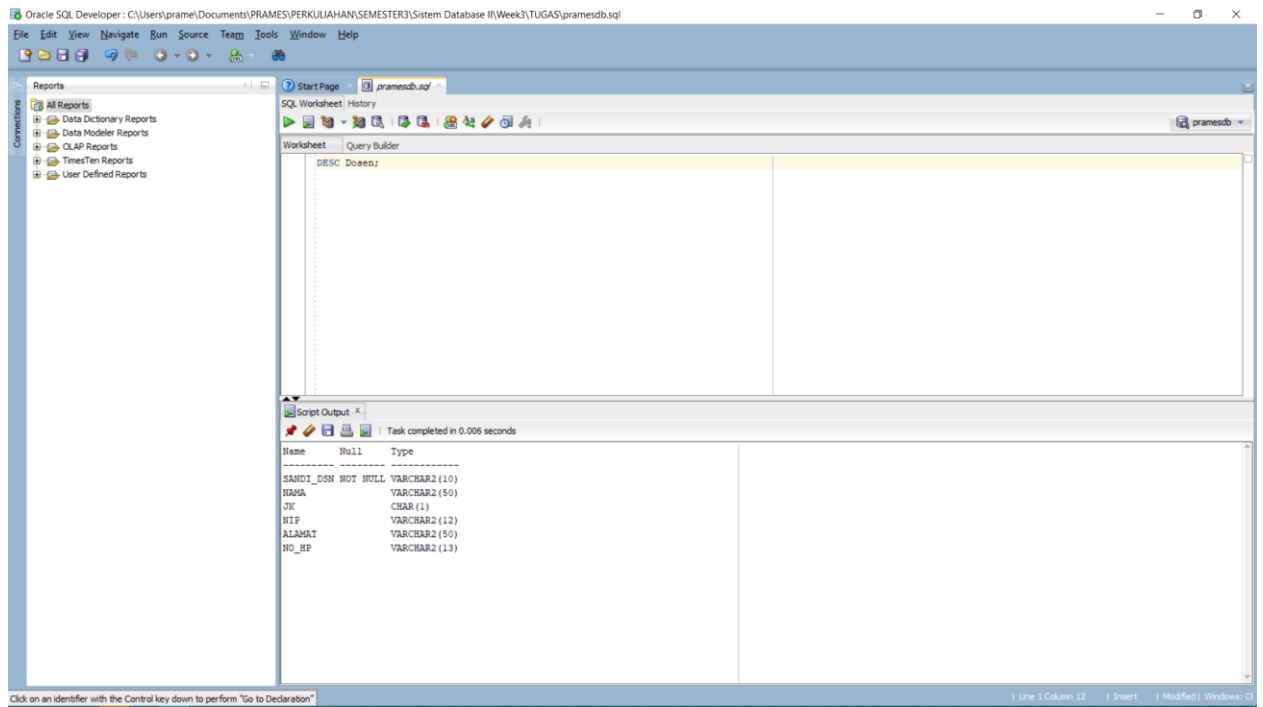
### 3. Desc Table:

#### a. Mahasiswa:

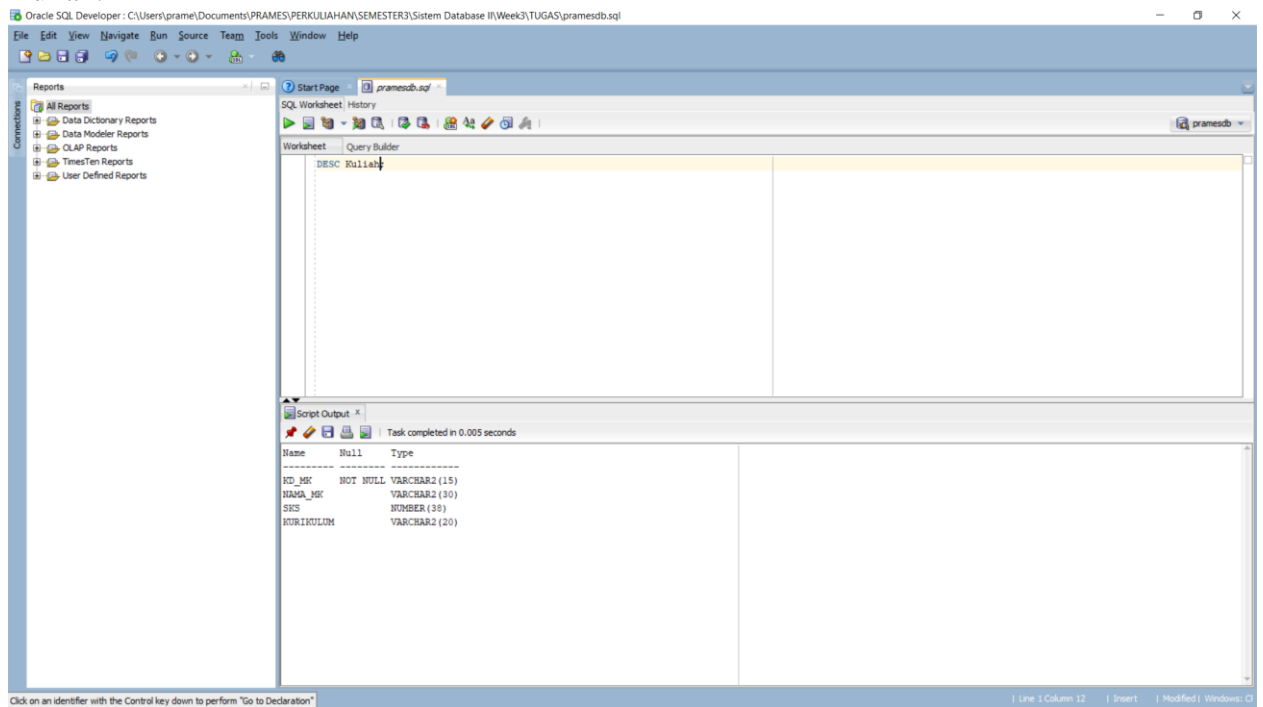


#### b. Dosen:

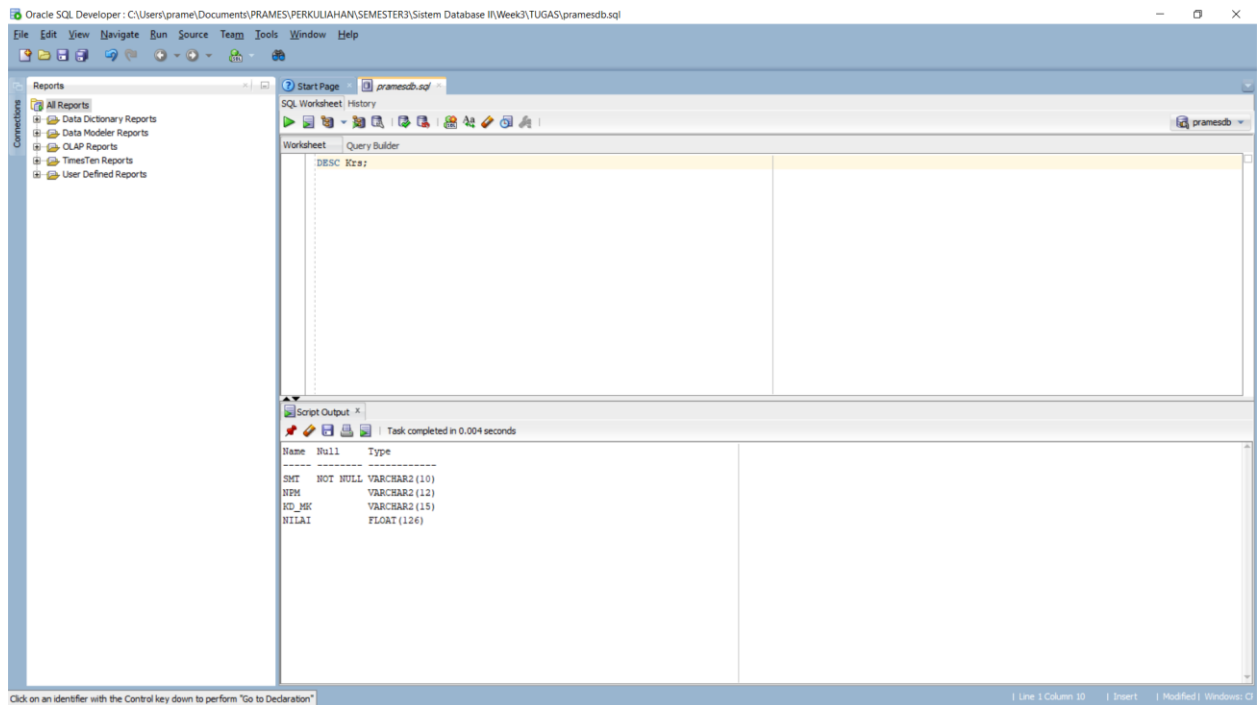




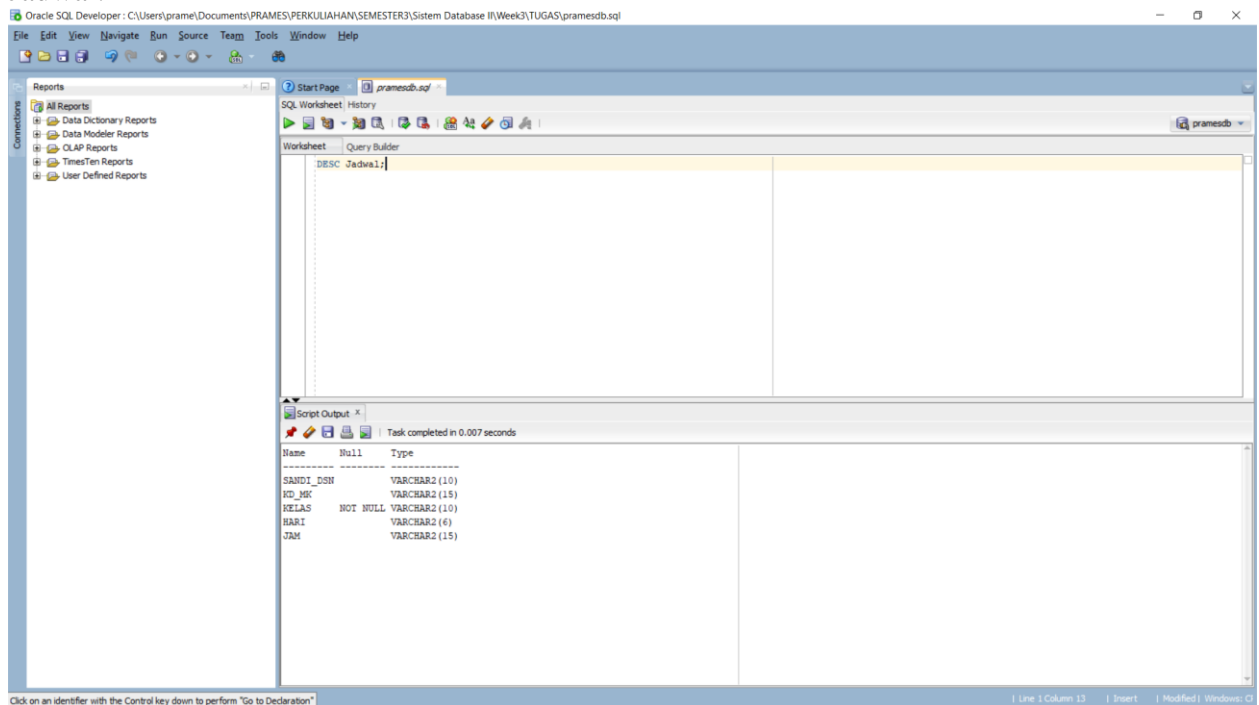
c. Kuliah:



d. Krs:



e. Jadwal:



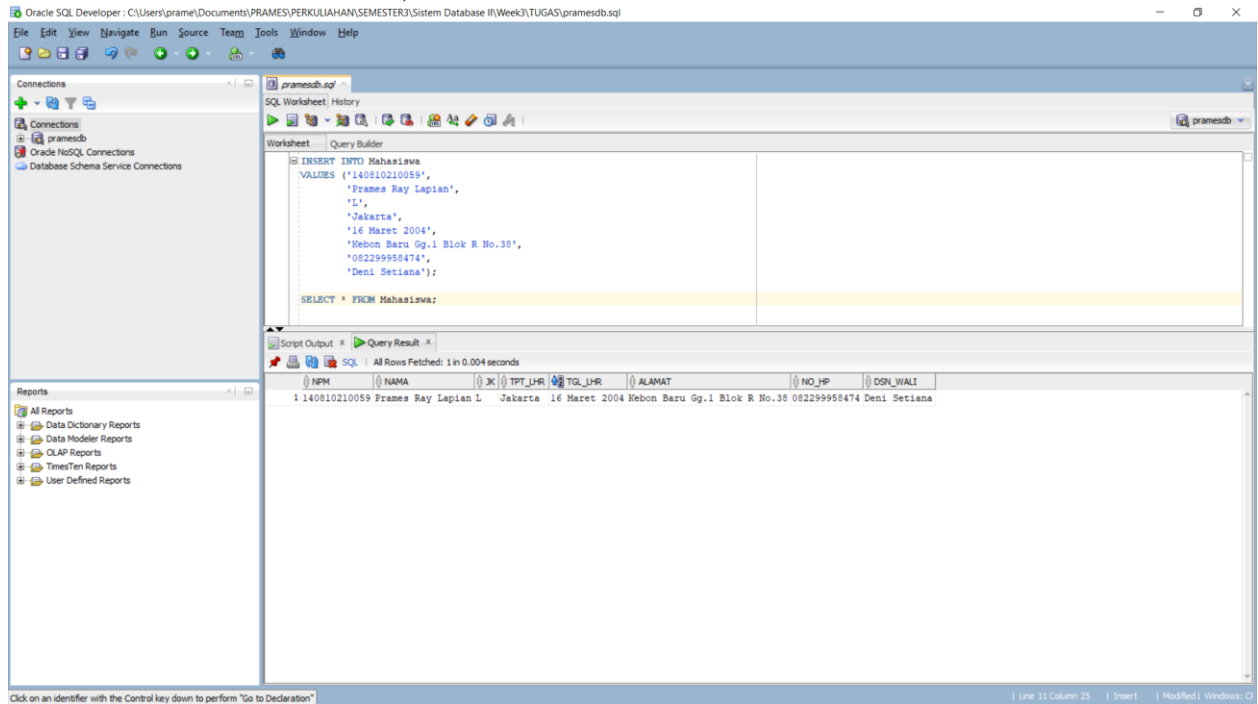
4. Insert Into Table:

a. Mahasiswa:

```
INSERT INTO Mahasiswa
VALUES ('140810210059',
       'Prames Ray Lapian',
       'L',
       'Jakarta',
```

'16 Maret 2004',  
 'Kebon Baru Gg.1 Blok R No.38',  
 '082299958474',  
 'Deni Setiana');

SELECT \* FROM Mahasiswa;



b. Dosen:

```

INSERT INTO Dosen
VALUES ('D03B10007',
       'Dr. Juli Rejito, M.Kom.',
       'L',
       '19680717 ',
       'Unknown',
       'Unknown');

INSERT INTO Dosen
VALUES ('D03B10009',
       'Deni Setiana, S.Si., M.Cs.',
       'L',
       '19730925',
       'Unkown',
       '08882006926');

INSERT INTO Dosen
VALUES ('D10A10024',
       'Anita Triska, S.Si., M.Si',
       'P',
       '19831228',
       'Unknown',

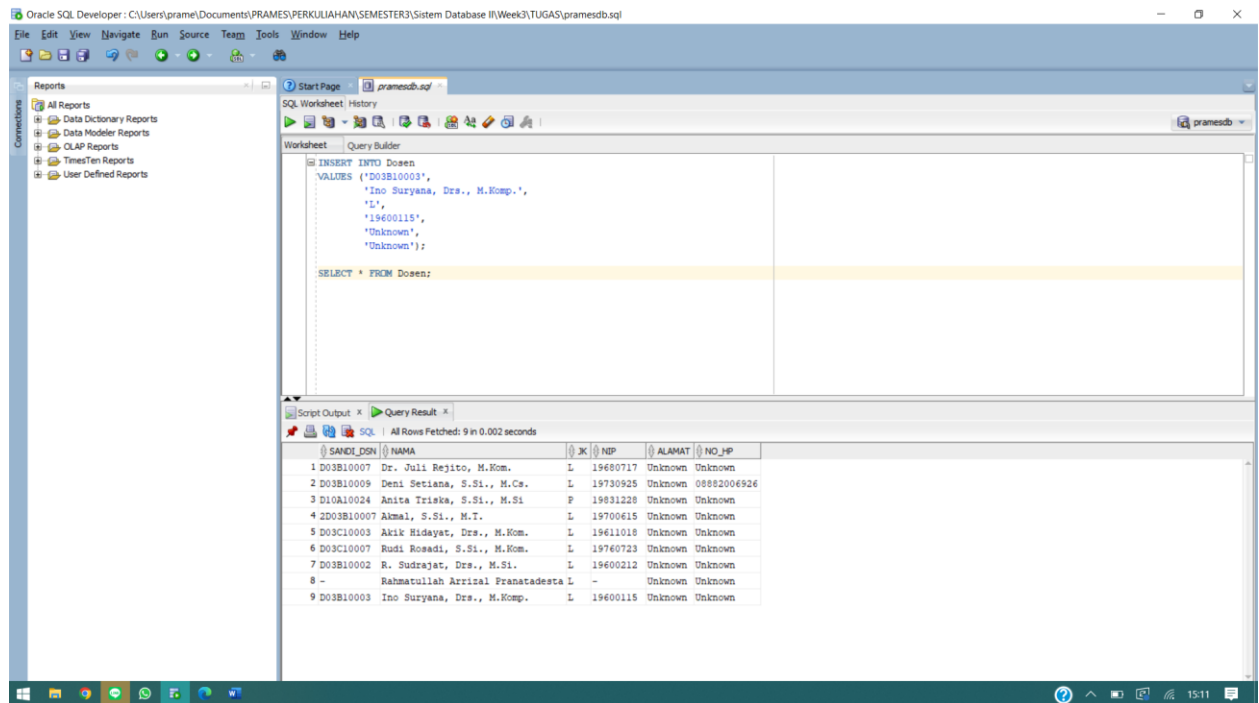
```

```

        'Unknown');
INSERT INTO Dosen
VALUES ('2D03B10007',
        'Akmal, S.Si., M.T.',
        'L',
        '19700615',
        'Unknown',
        'Unknown');
INSERT INTO Dosen
VALUES ('D03C10003',
        'Akik Hidayat, Drs., M.Kom.',
        'L',
        '19611018',
        'Unknown',
        'Unknown');
INSERT INTO Dosen
VALUES ('D03C10007',
        'Rudi Rosadi, S.Si., M.Kom.',
        'L',
        '19760723',
        'Unknown',
        'Unknown');
INSERT INTO Dosen
VALUES ('D03B10002',
        'R. Sudrajat, Drs., M.Si.',
        'L',
        '19600212',
        'Unknown',
        'Unknown');
INSERT INTO Dosen
VALUES ('-',
        'Rahmatullah Arrizal Pranatadesta',
        'L',
        '-',
        'Unknown',
        'Unknown');
INSERT INTO Dosen
VALUES ('D03B10003',
        'Ino Suryana, Drs., M.Komp.',
        'L',
        '19600115',
        'Unknown',
        'Unknown');

SELECT * FROM Dosen;

```



- c. Kuliah:
- ```

INSERT INTO Kuliah
VALUES ('D10K.0400305 ',
       'Sistem Database II',
       '2',
       '2017');

INSERT INTO Kuliah
VALUES ('D10.0400302',
       'Aljabar Linier',
       '3',
       '2017');

INSERT INTO Kuliah
VALUES ('D10K-3003',
       'Pemrograman Web',
       '3',
       '2017');

INSERT INTO Kuliah
VALUES ('D10A.0400304',
       'Matematika Diskrit',
       '3',
       '2017');

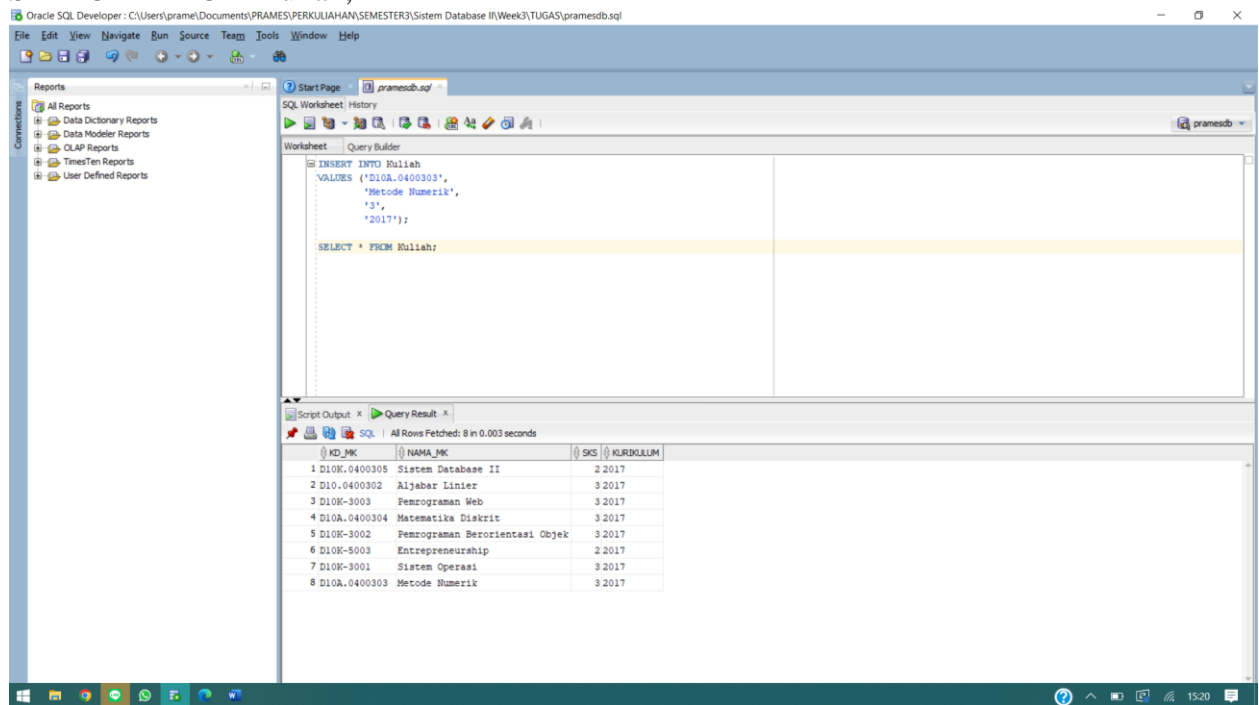
INSERT INTO Kuliah
VALUES ('D10K-3002',
       'Pemrograman Berorientasi Objek',
       '3',
       '2017');

INSERT INTO Kuliah

```

```
VALUES ('D10K-5003',
        'Entrepreneurship',
        '2',
        '2017');
INSERT INTO Kuliah
VALUES ('D10K-3001',
        'Sistem Operasi',
        '3',
        '2017');
INSERT INTO Kuliah
VALUES ('D10A.0400303',
        'Metode Numerik',
        '3',
        '2017');
```

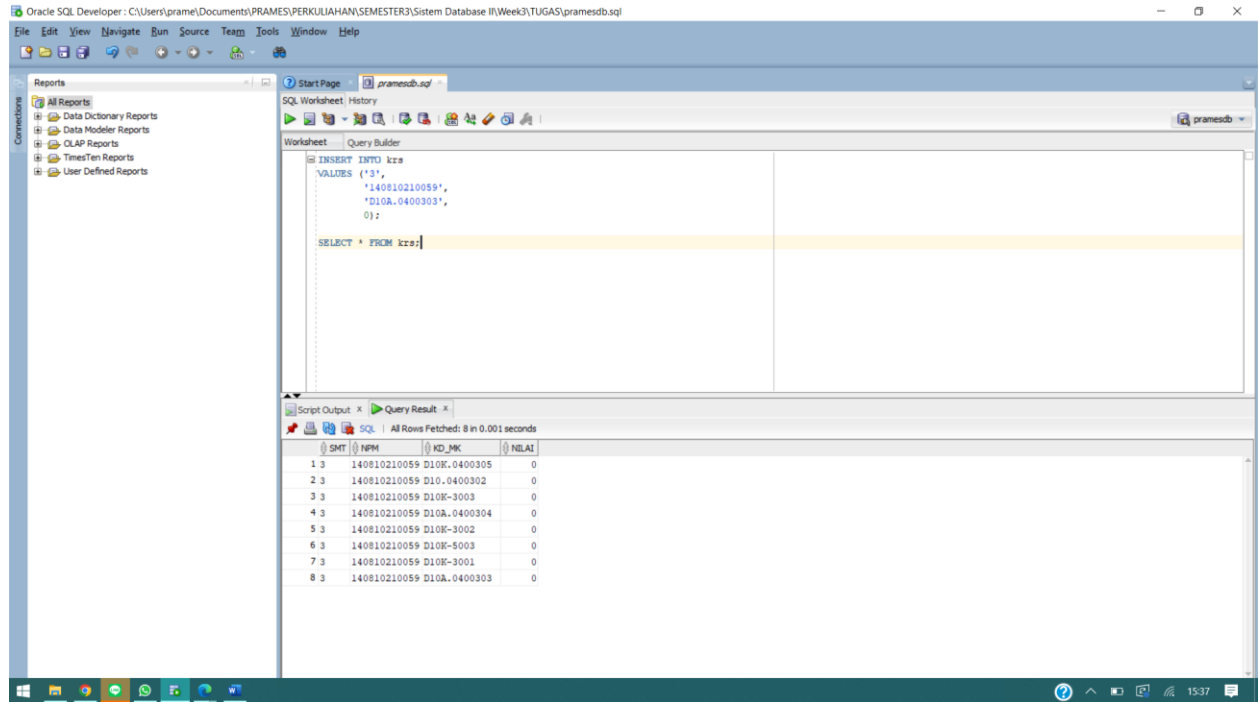
```
SELECT * FROM Kuliah;
```



d. Krs:

```
INSERT INTO krs
VALUES ('3',
        '140810210059',
        'D10K.0400305 ',
        0);
INSERT INTO krs
VALUES ('3',
        '140810210059',
        'D10.0400302',
        0);
```

```
INSERT INTO krs
VALUES ('3',
       '140810210059',
       'D10K-3003',
       0);
INSERT INTO krs
VALUES ('3',
       '140810210059',
       'D10A.0400304',
       0);
INSERT INTO krs
VALUES ('3',
       '140810210059',
       'D10K-3002',
       0);
INSERT INTO krs
VALUES ('3',
       '140810210059',
       'D10K-5003',
       0);
INSERT INTO krs
VALUES ('3',
       '140810210059',
       'D10K-3001',
       0);
INSERT INTO krs
VALUES ('3',
       '140810210059',
       'D10A.0400303',
       0);
SELECT * FROM krs;
```



e. Jadwal:

```
INSERT INTO jadwal
VALUES ('D03B10007',
       'D10K.0400305 ',
       'A',
       'Senin',
       '08.00-09.40');
```

```
INSERT INTO jadwal
VALUES ('D10A10024',
       'D10.0400302',
       'A',
       'Senin',
       '13:30 - 16:00');
```

```
INSERT INTO jadwal
VALUES ('D03C10007',
       'D10K-3003',
       'A',
       'Selasa',
       '08:00 - 10:30');
```

```
INSERT INTO jadwal
VALUES ('D03C10003',
       'D10A.0400304',
       'A',
       'Selasa',
       '13:30 - 16:00');
```

```
INSERT INTO jadwal
VALUES ('2D03B10007',
```



```

'D10K-3002',
'A',
'Kamis',
'08:00 - 10:30');
INSERT INTO jadwal
VALUES ('D03B10002',
'D10K-5003',
'A',
'Kamis',
'10:45 - 12:25');
INSERT INTO jadwal
VALUES ('-',
'D10K-3001',
'A',
'Jumat',
'08:00 - 10:30');
INSERT INTO jadwal
VALUES ('D03B10003',
'D10A.0400303',
'A',
'Jumat',
'13:00 - 15:30');

```

SELECT \* FROM jadwal;

The screenshot shows the Oracle SQL Developer interface. The main window displays the SQL Worksheet with the following queries:

```

INSERT INTO jadwal
VALUES ('D03B10003',
'D10A.0400303',
'A',
'Jumat',
'13:00 - 15:30');

SELECT * FROM jadwal;

```

The Query Result pane shows the output of the SELECT query, displaying 8 rows of data from the 'jadwal' table. The columns are: SAKSI\_DGN, KD\_MK, KELAS, HARI, and JAM.

| SAKSI_DGN   | KD_MK        | KELAS | HARI   | JAM           |
|-------------|--------------|-------|--------|---------------|
| 1 D03B10007 | D10K.0400305 | A     | Senin  | 08:00 - 09:40 |
| 2 D10A10024 | D10.0400302  | A     | Senin  | 13:30 - 16:00 |
| 3 D03C10007 | D10K-3003    | A     | Selasa | 08:00 - 10:30 |
| 4 D03C10003 | D10A.0400304 | A     | Selasa | 13:30 - 16:00 |
| 5 D03B10007 | D10K-3002    | A     | Kamis  | 08:00 - 10:30 |
| 6 D03B10002 | D10K-5003    | A     | Kamis  | 10:45 - 12:25 |
| 7 -         | D10K-3001    | A     | Jumat  | 08:00 - 10:30 |
| 8 D03B10003 | D10A.0400303 | A     | Jumat  | 13:00 - 15:30 |