



## Tugas Database 2

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1184071

### 1 Cara Membuat Aplikasi Builder Dari File Excel ke Oracle Apex

1. Buatlah data yang akan kita masukkan ke dalam Oracle APEX pada Microsoft Excel.

No	Name Mahasiswa	Alamat Mahasiswa	Tgl Lahir
1	Aldiyan Mahasiswa	Jl. Kartini No.12, Samarinda 75112	01-Januari 1990
2	Wawan Suka	Jl. Kartini No.10, Samarinda 75112	09-Maret 1990
3	Dewi Melati	Jl. Tambang No.7A, Samarinda 75112	17-Juni 1990
4	Rizkiyah	Jl. Kartini No.5, Samarinda 75112	10-September 1990

No	Nama Penerima	Alamat Penerima
1	Bapak. Drs. Madi Kurniawan	Rayaan, Dosen Grupa Sandungan, Jakarta 43113
2	Drs. Tomy Haryati, M.P.	Jl. Ciputat No. 31, Bogor 43122
3	Drs. Yudha Widya, M.T	Jl. Raya No. 31, Bogor 43122

No	Mata Pelajaran	SKS	Semester
1	Matematika	3	1
2	Statistik	3	1
3	Bio	2	2
4	Geografi	2	2
5	Matematika	3	2

The image shows two separate tables in Microsoft Excel. The first table, located at the top, has three columns: A, B, and C. It contains five rows of data:

A	B	C
1	PER 1054	680001/A
2	PER 1054	680001/B
3	PER 1052	680001
4	PER 1052	680001
5	PER 1051	680001/C

The second table, located below the first, has five columns: A, B, C, D, and E. It contains four rows of data:

A	B	C	D	E
1	Footer	INR	Waktu	Tanggal
2	PER 1054	680001	00:00 - 00:40 AM Kamis, 11.03.12	Ruang 5
3	PER 1052	680001	00:00 - 11:40 AM Jumat, 09.03.12	Ruang 5
4	PER 1051	680001	00:00 - 14:40 AM Jumat, 09.03.12	Ruang 5
5	PER 1050	680001	00:00 - 14:40 AM Jumat, 09.03.12	Ruang 5

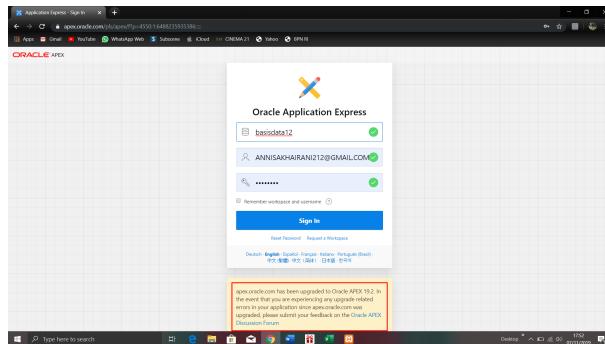
Catatan Perhatikan data yang ada pada excel karena ketika ada kesalahan dalam pembuatan data contohnya baris yang kosong tetapi masuk ke dalam data makan akan mempengaruhi data pada saat mencreate aplikasi. Dan jangan lupa untuk mernormalisasi data yang telah ada.

## 2 Cara Membuat Aplikasi Builder dari File Exel ke Oracle Apex

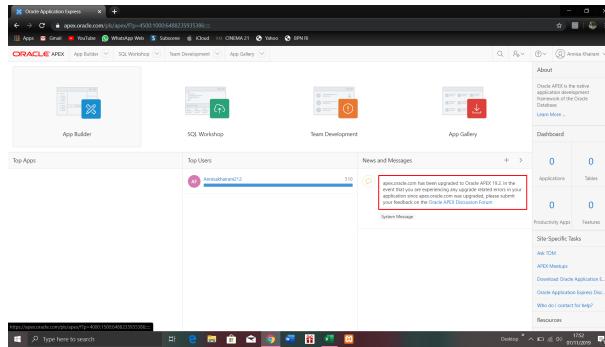
(a) Buka Oracle Apex terlebih dahulu



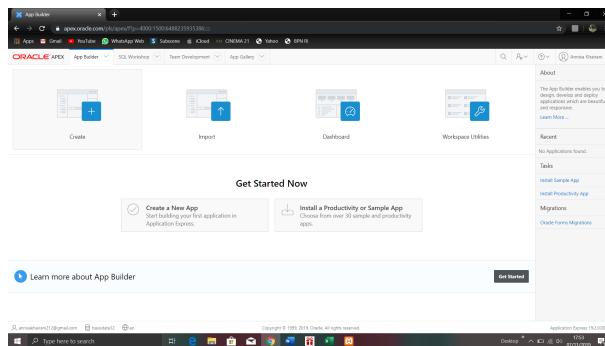
(b) lalu masukkan workspace, username beserta password dan kemudian tekan sign in



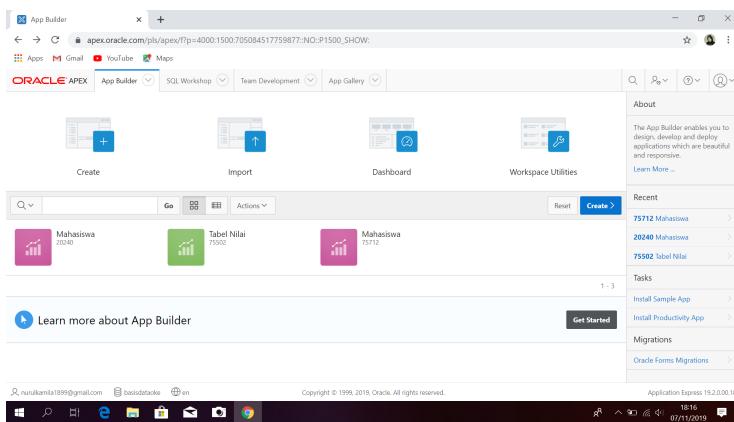
(c) Jika sudah masuk kemudian muncul tampilan seperti dibawah ini



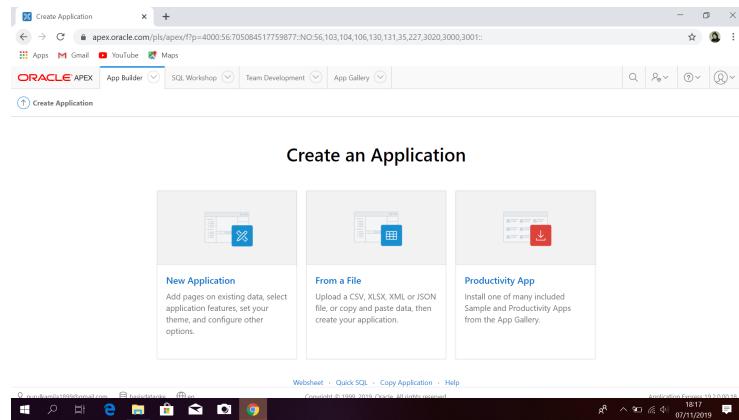
(d) Kemudian kita klik App Builder



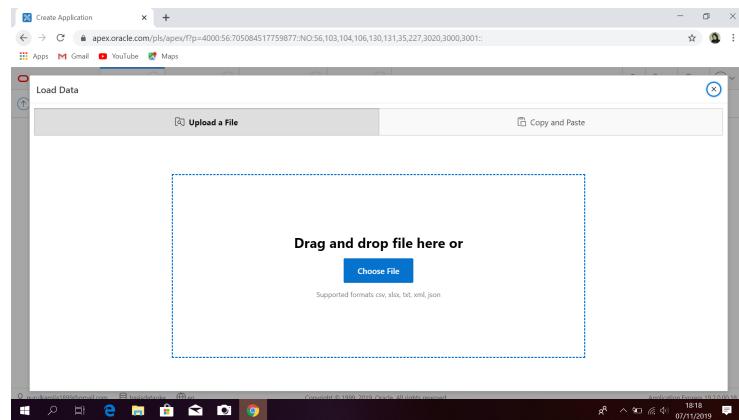
(e) Selanjutnya klik Creat



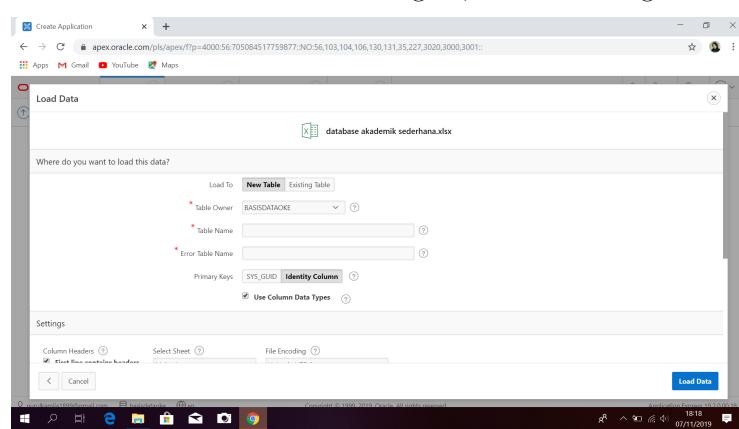
(f) Pada laman Creat an Application, pilih Form a File



- (g) Lalu, klik Choose File dan pilih file excel yang berisikan data , seperti contoh di bawah ini



- (h) Pada laman selanjutnya, silahkan masukkan nama Table sesuai yang kamu inginkan, perlu diketahui pada kolom error table name akan terisi otomatis. setelah itu klik Configure, lalu save change.



The image consists of three vertically stacked screenshots of the Oracle Application Express (APEX) interface, specifically the 'Load Data' feature.

**Screenshot 1: Load Data Configuration**

- The title bar says 'Create Application'.
- The URL is <https://apex.oracle.com/pls/apex/f?p=4000:56:705084517759877:NO:56,103,104,106,130,131,35,227,3020,3000,3001::>.
- The main panel shows 'Load Data' for 'database akademik sederhana.xlsx'.
- Configuration settings include:
  - 'Load To': New Table
  - 'Table Owner': BASISDATAONE
  - 'Table Name': MAHASISWA
  - 'Error Table Name': MAHASISWA\_ERRS
  - 'Primary Keys': SYS\_GUID, Identity Column
  - 'Use Column Data Types': checked
- A 'Configure' button is visible.

**Screenshot 2: Configure Dialog**

- The title bar says 'Configure'.
- The URL is <https://apex.oracle.com/pls/apex/f?p=4000:56:705084517759877:NO:56,103,104,106,130,131,35,227,3020,3000,3001::>.
- The 'Columns to Load' section lists columns:
 

Column Name	Data Type	Format Mask	Group Separator	Decimal Character
NIM	NUMBER		,	.
NAMA_MAHASISWA	VARCHAR2(50)		,	.
ALAMAT_MAHASISWA	VARCHAR2(255)		,	.
TGL_JAHIR	VARCHAR2(50)		,	.
- Buttons: 'Close Dialog' and 'Save Changes'.

**Screenshot 3: Load Data Confirmation**

- The title bar says 'Create Application'.
- The URL is <https://apex.oracle.com/pls/apex/f?p=4000:56:705084517759877:NO:56,103,104,106,130,131,35,227,3020,3000,3001::>.
- The message 'Table MAHASISWA created with 4 rows!' is displayed.
- Buttons: 'View Table' and 'Create Application'.

The image shows three screenshots of an Oracle APEX application interface for loading data from an Excel file into a database.

**Screenshot 1: Load Data - Dosen**

This screenshot shows the "Load Data" configuration dialog for creating a new table named "DOSEN". The table owner is set to "BASISDATAKOK". The primary key is defined as "SYS\_GUID" and "Identity Column". The error table name is "DOSEN\_ERR\$". The "Configure" button is open, showing settings for rows to sample (200), columns to load, and previewing the first four rows of the data.

Column Name	Data Type	Format Mask	Group Separator	Decimal Character
NIK	NUMBER		,	.
NAMA_DOSEN	VARCHAR2(50)		,	.
ALAMAT_DOSEN	VARCHAR2(255)		,	.

**Screenshot 2: Load Data - Kuliah**

This screenshot shows the "Load Data" configuration dialog for creating a new table named "KULIAH". The table owner is set to "BASISDATAKOK". The primary key is defined as "SYS\_GUID" and "Identity Column". The error table name is "KULIAH\_ERR\$". The "Configure" button is closed, and the main "Load Data" dialog is visible.

The image shows three overlapping Oracle APEX application windows, likely from version 19.2, demonstrating the process of loading data from an Excel file into a database.

**Top Window: Configure**

This window is used to define the columns to load. It shows four columns: KODE, MATA\_KULIAH, SKS, and SEMESTER. The Data Type for KODE is VARCHAR2(50), and for MATA\_KULIAH is VARCHAR2(50). The Data Type for SKS and SEMESTER is NUMBER. The Group Separator and Decimal Character are both set to a dot ('.').

Column Name	Data Type	Format Mask	Group Separator	Decimal Character
KODE	VARCHAR2(50)		.	.
MATA_KULIAH	VARCHAR2(50)		.	.
SKS	NUMBER		.	.
SEMESTER	NUMBER		.	.

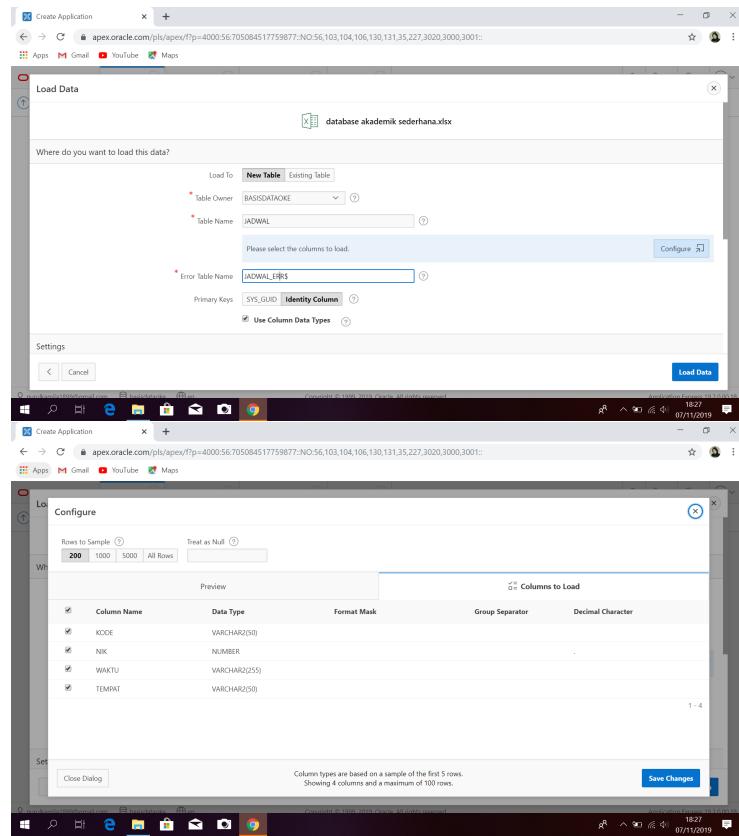
**Middle Window: Load Data**

This window shows the configuration for loading data into a new table named 'NILAI'. The table owner is 'BASISDATAKOK' and the table name is 'NILAI'. The primary key is 'SYS\_GUID'. The error table name is 'NILAI\_ERR\$'. The 'Load Data' button is visible at the bottom right.

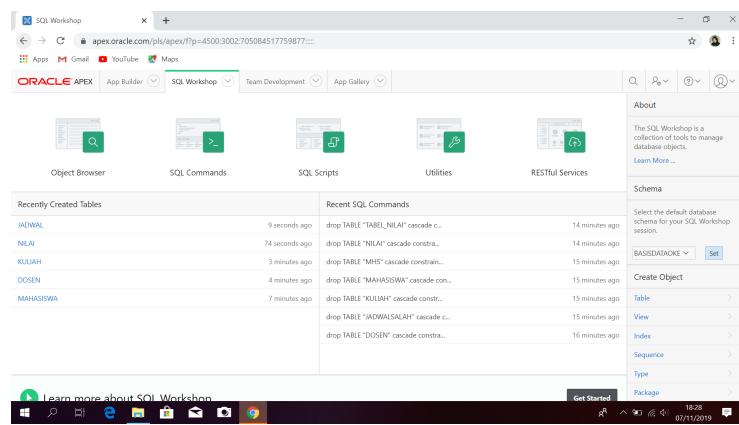
**Bottom Window: Configure**

This window is similar to the top one, showing the configuration for loading data into the 'NILAI' table. It includes columns KODE, NIM, and INDEKS NILAI. The Data Type for NIM is NUMBER and for INDEKS NILAI is VARCHAR2(1).

Column Name	Data Type	Format Mask	Group Separator	Decimal Character
KODE	VARCHAR2(50)		.	.
NIM	NUMBER		.	.
INDEKS NILAI	VARCHAR2(1)		.	.



(i) Kita dapat melihat table kita pada SQL WorkShop



(j) Kemudian Kita Hilangkan kolom ID(number) pada setiap tabel tersebut

The image consists of three vertically stacked screenshots of the Oracle APEX SQL Workshop interface.

**Screenshot 1: SQL Workshop - Recent SQL Commands**

This screenshot shows the SQL Workshop interface with the "Recent SQL Commands" section. It lists several recent operations:

Action	Time Ago	Details
drop TABLE "JADWAL_NILAI" cascade const...	9 seconds ago	
drop TABLE "NILAI" cascade const...	74 seconds ago	
drop TABLE "KULIAH" cascade const...	3 minutes ago	
drop TABLE "DOSEN" cascade const...	4 minutes ago	
drop TABLE "MAHASISWA" cascade const...	7 minutes ago	
drop TABLE "KULIAH" cascade const...	14 minutes ago	
drop TABLE "MAHASISWA" cascade const...	15 minutes ago	
drop TABLE "JADWAL_NILAI" cascade const...	15 minutes ago	
drop TABLE "DOSEN" cascade const...	16 minutes ago	

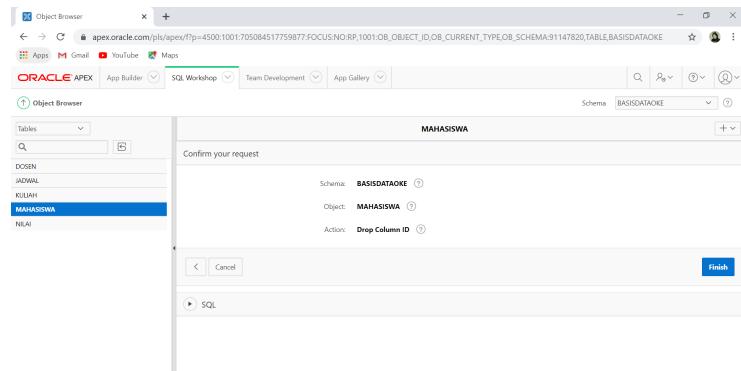
**Screenshot 2: Object Browser - MAHASISWA Table Definition**

This screenshot shows the Object Browser with the "MAHASISWA" table selected. The table definition is displayed in the main pane:

Column Name	Data Type	Nullable	Default	Primary Key
ID	NUMBER	No	"BASISDATA0KE"."SQ05\$, 91146980" navel	1
NIM	NUMBER	Yes	-	-
NAMA_MAHASISWA	VARCHAR2(50)	Yes	-	-
ALAMAT_MAHASISWA	VARCHAR2(255)	Yes	-	-
TGL_LAHIR	VARCHAR2(50)	Yes	-	-

**Screenshot 3: Object Browser - Drop Column Wizard**

This screenshot shows the "Drop Column" wizard for the "MAHASISWA" table. The "Remove Column" dropdown is set to "ID (NUMBER)".



MAHASISWA					
Column Name	Data Type	Nullable	Default	Primary Key	
NIM	NUMBER	Yes	-	-	
NAMA_MAHASISWA	VARCHAR2(50)	Yes	-	-	
ALAMAT_MAHASISWA	VARCHAR2(255)	Yes	-	-	
TGL_LAHIR	VARCHAR2(50)	Yes	-	-	

DOSEN					
Column Name	Data Type	Nullable	Default	Primary Key	
ID	NUMBER	No	"BASISDATAOKE"."SEQ\$\$_91147012".nextval	1	
NIK	NUMBER	Yes	-	-	
NAMA_DOSEN	VARCHAR2(50)	Yes	-	-	
ALAMAT_DOSEN	VARCHAR2(255)	Yes	-	-	

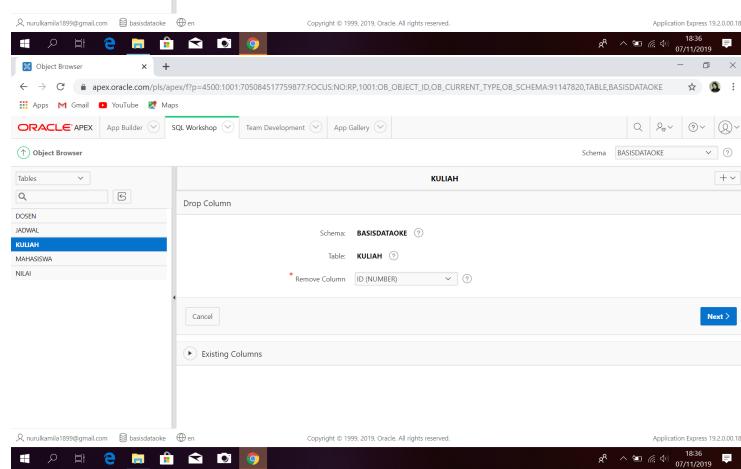
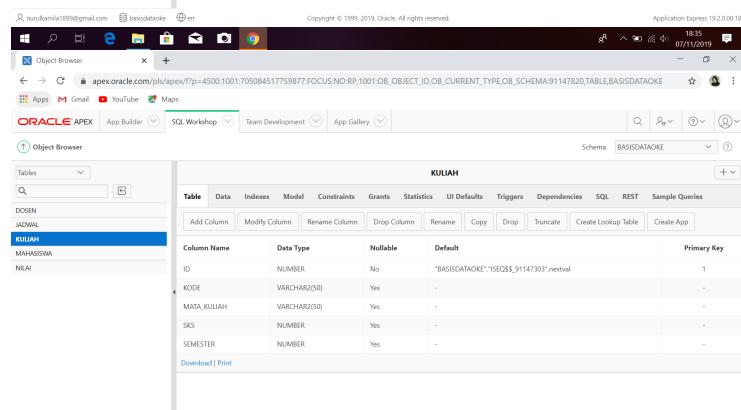
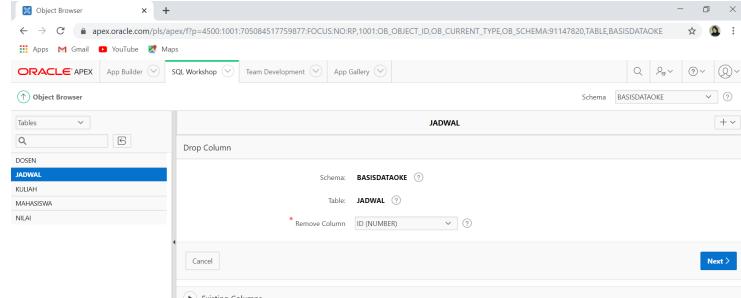
The screenshots illustrate the creation of two tables in the 'BASISDATAKIE' schema:

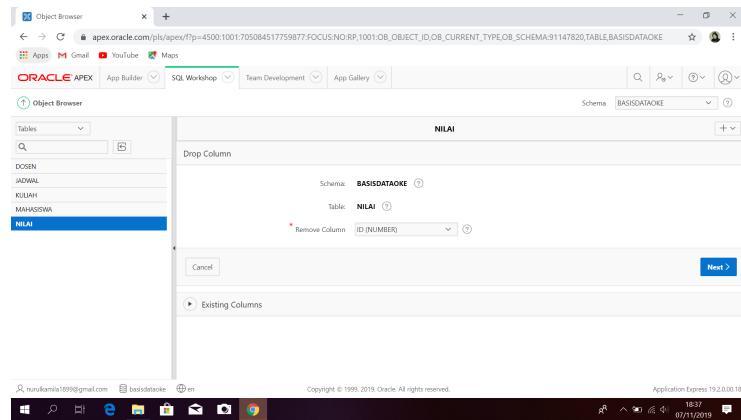
**DOSEN Table Creation:**

- Step 1:** Object Browser shows the 'DOSEN' table selected. The 'SQL Workshop' tab is active.
- Step 2:** 'Drop Column' dialog for the 'DOSEN' table. The 'Remove Column' dropdown is set to 'ID (NUMBER)'. Buttons include 'Cancel' and 'Next >'.
- Step 3:** Confirmation dialog for dropping the 'ID' column from the 'DOSEN' table. It lists the schema ('BASISDATAKIE'), object ('DOSEN'), and action ('Drop Column ID'). Buttons include 'Cancel' and 'Finish'.

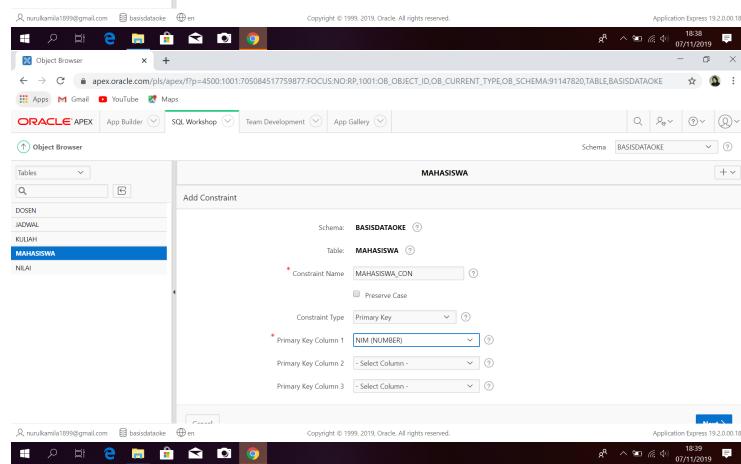
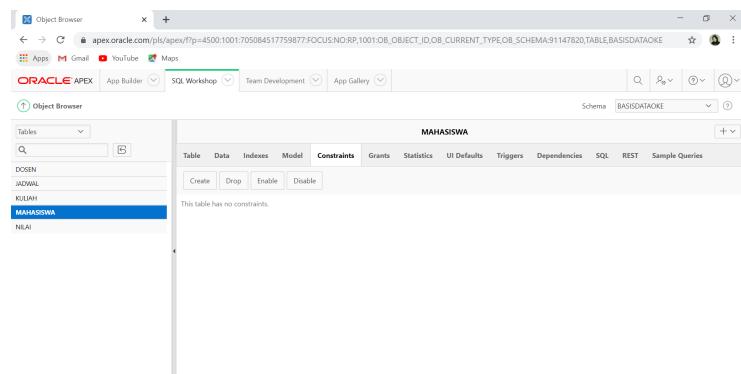
**JADWAL Table Definition:**

- Step 1:** Object Browser shows the 'JADWAL' table selected. The 'SQL Workshop' tab is active.
- Step 2:** Table definition screen for 'JADWAL'. The 'Table' tab is selected. The structure includes columns: ID (NUMBER), KODE (VARCHAR2(50)), NILAI (NUMBER), WAKTU (VARCHAR2(255)), and TEMPAT (VARCHAR2(50)). Primary key is defined as 'ID'.





(k) setelah itu, pada pilihan constrains, setting primery key, dan foregent key sesuai tabel



MAHASISWA

Constraint	Type	Search Condition	Related Constraint	Columns	Delete Rule	Status	Last Change	Index	Invalid
MAHASISWA_CON	Primary			NIM		ENABLED	11/07/2019 11:39:34 AM	MAHASISWA_CON	

KULIAH

Add Constraint

Schema: BASISDATAAKE

Table: KULIAH

Constraint Name: KULIAH\_CON

Constraint Type: Primary Key

Primary Key Column 1: KODE (VARCHAR2)

Primary Key Column 2: Select Columns

Primary Key Column 3: Select Columns

DOSEN

Add Constraint

Schema: BASISDATAAKE

Table: DOSEN

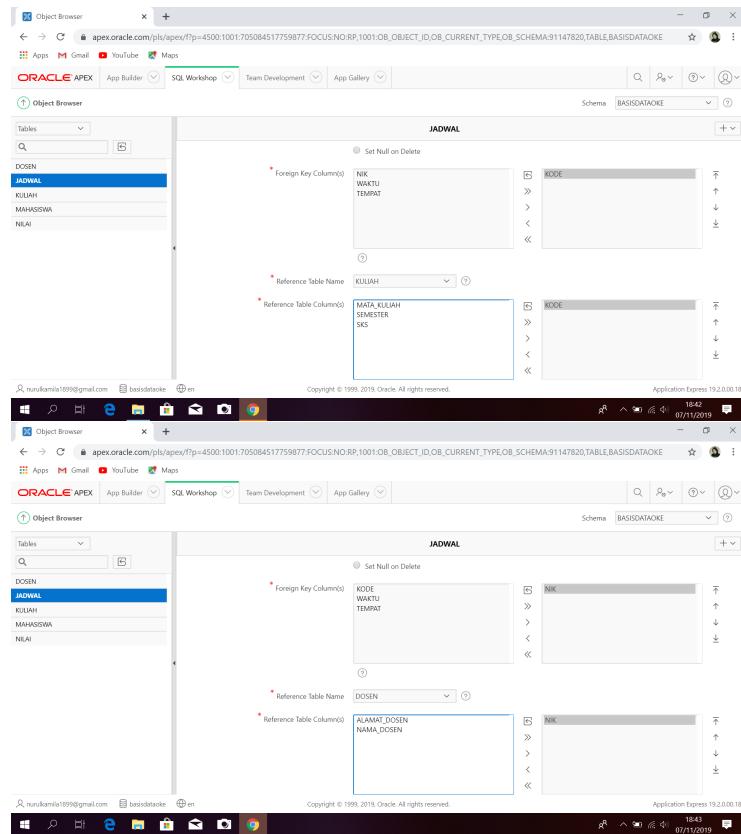
Constraint Name: DOSEN\_CON

Constraint Type: Primary Key

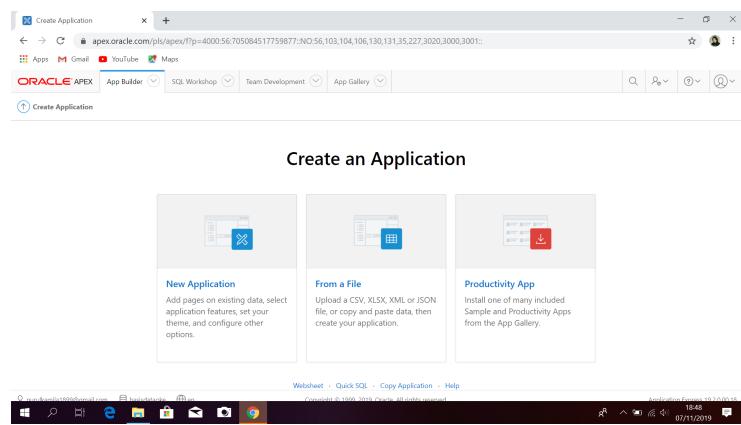
Primary Key Column 1: NIK (NUMBER)

Primary Key Column 2: Select Columns

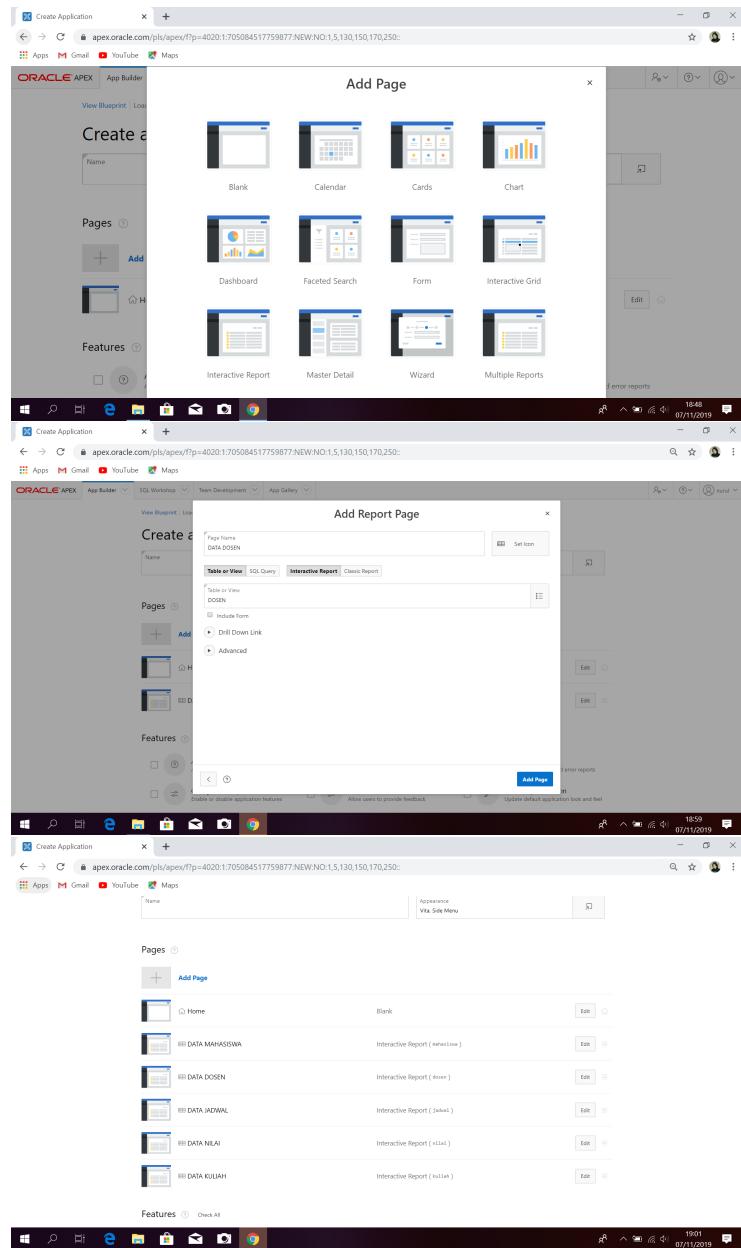
Primary Key Column 3: Select Columns

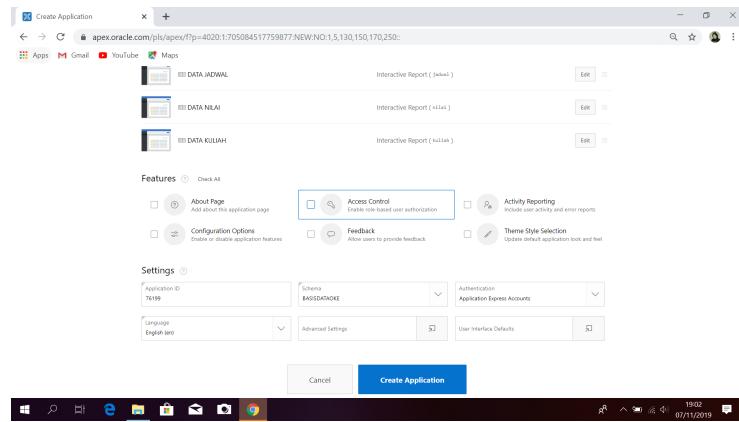


(l) Lalu, kembali ke App Builder, lalu pilih New Application

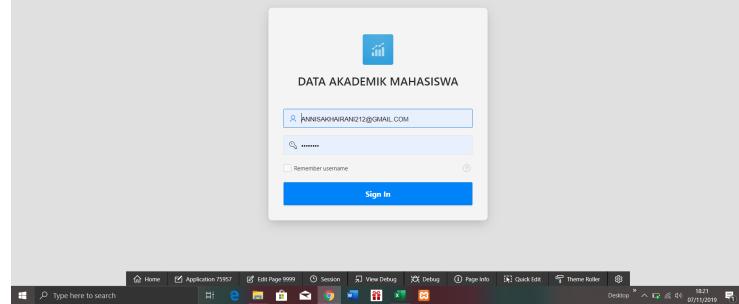
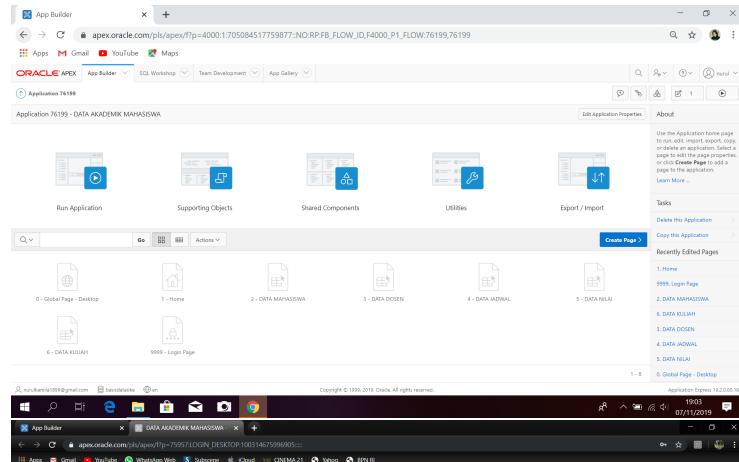


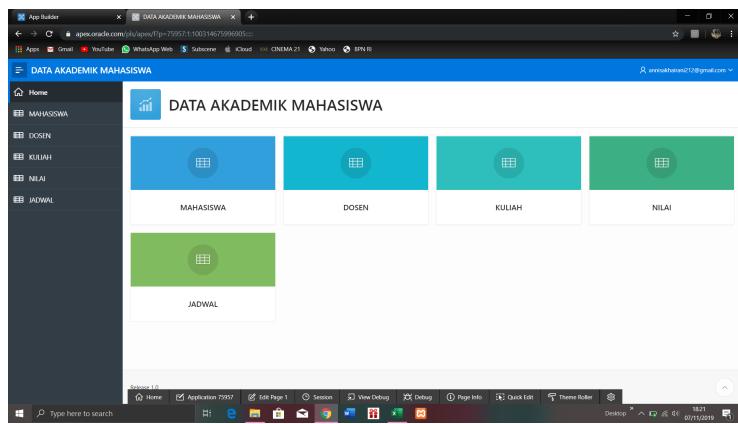
(m) Add Page , lalu pilih Interactive Report





(n) jika sudah semua,kita Run Application





**3 link login https://apex.oracle.com/pls/apex/f?p=4000:1:648875957,75957**

*Username : annisakhairani212@gmail.com*

*Password : annisa2102*