

## LAMPIRAN

### Lampiran 1. Script Query untuk memeriksa data noise

- a. Script Query untuk memeriksa data null

```
SELECT * FROM [NAMA_TABEL]
WHERE [NAMA_KOLOM] IS NULL
```

- b. Script Query untuk memeriksa incomplete data

```
SELECT * FROM [NAMA_TABEL]
WHERE [NAMA_KOLOM] = ""
```

- c. Script Query untuk memeriksa data duplikat

```
SELECT id_fakultas FROM dim_prodi
GROUP BY id_fakultas HAVING (COUNT (id_fakultas) > 1)
```

## Lampiran 2. Script Query untuk membuat table pada data Stage

## a. Tabel dbo.st\_alumni

```
CREATE TABLE [dbo].[st_alumni](
    [id] [int] NULL,
    [nim] [varchar](25) NULL,
    [nama] [varchar](75) NULL,
    [tempat_lahir] [varchar](250) NULL,
    [jenis_kelamin] [varchar](1) NULL,
    [id_prodi] [int] NULL,
    [bulan_lulus] [int] NULL,
    [tahun_lulus] [int] NULL,
    [ipk] [float] NULL,
    [password] [varchar](250) NULL,
    [alamat] [varchar](250) NULL,
    [email] [varchar](50) NULL,
    [nomor_hp] [varchar](50) NULL,
    [nomor_tlp_rumah] [varchar](50) NULL,
    [id_jenis_pekerjaan] [int] NULL,
    [nama_institusi] [varchar](75) NULL,
    [alamat_institusi] [varchar](max) NULL,
    [bagian] [varchar](75) NULL,
    [id_salary_range] [int] NULL,
    [tanggal_lahir] [datetime] NULL,
    [tanggal_mulai_kerja] [datetime] NULL,
    [tanggal_akhir_kerja] [datetime] NULL,
    [relevansi_pendidikan] [bit] NULL,
    [alasan_relevansi] [varchar](max) NULL,
    [saran] [varchar](max) NULL,
    [UserRoleId] [int] NULL,
    [Angkatan] [int] NULL,
    [Jabatan] [varchar](100) NULL,
```

```

[IsMengisi] [bit] NULL,
[GetJobYear] [int] NULL,
[GetJobMonth] [int] NULL,
[GetJobDay] [int] NULL
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO

```

b. Table dbo.st\_fakultas

```

CREATE TABLE [dbo].[st_fakultas](
    [id] [int] NOT NULL,
    [nama_fakultas] [varchar](75) NOT NULL,
    CONSTRAINT [PK_fakultas] PRIMARY KEY CLUSTERED
(
    [id] ASC
) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
    IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
    ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO

```

c. Table dbo.st\_jenis\_pekerjaan

```

CREATE TABLE [dbo].[st_jenis_pekerjaan](
    [id] [int] NOT NULL,
    [keterangan] [varchar](75) NOT NULL,
    CONSTRAINT [PK_jenis_pekerjaan] PRIMARY KEY CLUSTERED
(
    [id] ASC
) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
    IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
    ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

```

```
) ON [PRIMARY]
GO
```

d. Table dbo.st\_job\_position

```
CREATE TABLE [dbo].[st_job_position](
    [id] [int] NOT NULL,
    [id_user] [int] NOT NULL,
    [title] [varchar](75) NOT NULL,
    [company_name] [varchar](75) NULL,
    [company_description] [text] NULL,
    [position] [varchar](150) NULL,
    [qualification] [text] NULL,
    [term_of_requirement] [text] NULL,
    [closing_date] [datetime] NULL,
    [date_of_create] [datetime] NULL,
    CONSTRAINT [PK_job_position] PRIMARY KEY CLUSTERED
    (
        [id] ASC
    ) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
    IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
    ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
```

## e. Table dbo.st\_prodi

```
CREATE TABLE [dbo].[st_prodi](
    [id] [int] NOT NULL,
    [id_fakultas] [int] NOT NULL,
    [nama_prodi] [varchar](75) NOT NULL,
    CONSTRAINT [PK_prodi] PRIMARY KEY CLUSTERED
(
    [id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
```

## f. Table dbo.st\_salary\_range

```
CREATE TABLE [dbo].[st_salary_range](
    [id] [int] NOT NULL,
    [range] [varchar](75) NOT NULL,
    CONSTRAINT [PK_salary_range] PRIMARY KEY CLUSTERED
(
    [id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
```

## g. Table dbo.st\_send\_jobs

```

CREATE TABLE [dbo].[st_send_jobs](
    [id] [int] NOT NULL,
    [id_alumni] [int] NOT NULL,
    [id_job_position] [int] NOT NULL,
    [date_of_send] [datetime] NOT NULL,
    CONSTRAINT [PK_send_jobs] PRIMARY KEY CLUSTERED
    (
        [id] ASC
    ) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
    IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
    ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO

```

## h. Tabel dbo.st\_user

```

CREATE TABLE [dbo].[st_user](
    [id] [int] NOT NULL,
    [username] [varchar](25) NOT NULL,
    [password] [varchar](250) NOT NULL,
    [nama] [varchar](75) NULL,
    [alamat] [varchar](250) NULL,
    [role] [varchar](10) NULL,
    [UserRoleId] [int] NULL,
    CONSTRAINT [PK_user] PRIMARY KEY CLUSTERED
    (
        [id] ASC
    )

```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,  
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]  
) ON [PRIMARY]  
GO
```

i. Table dbo.st\_userRole

```
CREATE TABLE [dbo].[st_UserRole](  
    [UserRoleId] [int] NOT NULL,  
    [UserRoleName] [varchar](50) NULL,  
    PRIMARY KEY CLUSTERED  
(  
        [UserRoleId] ASC  
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,  
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]  
) ON [PRIMARY]  
GO
```

## Lampiran 3. Script Query untuk membuat table dimensi

## a. Table dbo.dim\_alumni1

```
CREATE TABLE [dbo].[dim_alumni1](
    [alumni1_key] [int] IDENTITY(1,1) NOT NULL,
    [id] [int] NULL,
    [nim] [varchar](25) NULL,
    [nama] [varchar](75) NULL,
    [tempat_lahir] [varchar](250) NULL,
    [jenis_kelamin] [varchar](1) NULL,
    [bulan_lulus] [int] NULL,
    [tahun_lulus] [int] NULL,
    [ipk] [float] NULL,
    [password] [varchar](250) NULL,
    [alamat] [varchar](250) NULL,
    [email] [varchar](50) NULL,
    [nomor_hp] [varchar](50) NULL,
    [nomor_tlp_rumah] [varchar](50) NULL,
    [nama_institusi] [varchar](75) NULL,
    [alamat_institusi] [varchar](max) NULL,
    [bagian] [varchar](75) NULL,
    [tanggal_lahir] [datetime] NULL,
    [tanggal_mulai_kerja] [datetime] NULL,
    [tanggal_akhir_kerja] [datetime] NULL,
    [relevansi_pendidikan] [bit] NULL,
    [alasan_relevansi] [varchar](max) NULL,
    [saran] [varchar](max) NULL,
    [Angkatan] [int] NULL,
    [Jabatan] [varchar](100) NULL,
    [IsMengisi] [bit] NULL,
    [GetJobYear] [int] NULL,
    [GetJobMonth] [int] NULL,
```



```

[GetJobDay] [int] NULL,
CONSTRAINT [PK_dim_alumni1 ] PRIMARY KEY CLUSTERED
(
    [alumni1_key] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO

```

b. Table dbo.dim\_alumnus

```

CREATE TABLE [dbo].[dim_alumnus](
    [alumnus_key] [int] IDENTITY(1,1) NOT NULL,
    [id] [int] NULL,
    [nim] [varchar](25) NULL,
    [nama] [varchar](75) NULL,
    [tempat_lahir] [varchar](250) NULL,
    [jenis_kelamin] [varchar](1) NULL,
    [bulan_lulus] [int] NULL,
    [tahun_lulus] [int] NULL,
    [ipk] [float] NULL,
    [password] [varchar](250) NULL,
    [alamat] [varchar](250) NULL,
    [email] [varchar](50) NULL,
    [nomor_hp] [varchar](50) NULL,
    [nomor_tlp_rumah] [varchar](50) NULL,
    [nama_institusi] [varchar](75) NULL,
    [alamat_institusi] [varchar](max) NULL,
    [bagian] [varchar](75) NULL,
    [tanggal_lahir] [datetime] NULL,
    [tanggal_mulai_kerja] [datetime] NULL,
    [tanggal_akhir_kerja] [datetime] NULL,

```

```

[relevansi_pendidikan] [bit] NULL,
[alasan_relevansi] [varchar](max) NULL,
[saran] [varchar](max) NULL,
[Angkatan] [int] NULL,
[Jabatan] [varchar](100) NULL,
[IsMengisi] [bit] NULL,
[GetJobYear] [int] NULL,
[GetJobMonth] [int] NULL,
[GetJobDay] [int] NULL,
[MasaTunggu] [int] NULL,
CONSTRAINT [PK_dim_alumnus] PRIMARY KEY CLUSTERED
(
    [alumnus_key] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO

```

c. Table dbo.dim\_fakultas

```

CREATE TABLE [dbo].[dim_fakultas](
    [fakultas_key] [int] IDENTITY(1,1) NOT NULL,
    [id] [int] NULL,
    [nama_fakultas] [varchar](75) NULL,
CONSTRAINT [PK_dim_fakultas] PRIMARY KEY CLUSTERED
(
    [fakultas_key] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

```

```
GO
```

d. Table dbo.dim\_jenis\_pekerjaan

```
CREATE TABLE [dbo].[dim_jenis_pekerjaan](
    [jenispekerjaan_key] [int] IDENTITY(1,1) NOT NULL,
    [id] [int] NULL,
    [keterangan] [varchar](75) NULL,
    CONSTRAINT [PK_dim_jenis_pekerjaan] PRIMARY KEY CLUSTERED
(
    [jenispekerjaan_key] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
```

e. Table dbo.dim\_prodi

```
CREATE TABLE [dbo].[dim_prodi](
    [prodi_key] [int] IDENTITY(1,1) NOT NULL,
    [id] [int] NULL,
    [id_fakultas] [int] NULL,
    [nama_prodi] [varchar](75) NULL,
    CONSTRAINT [PK_dim_prodi] PRIMARY KEY CLUSTERED
(
    [prodi_key] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
```

## f. Table dbo.dim\_salary\_range

```

CREATE TABLE [dbo].[dim_salary_range](
    [salaryrange_key] [int] IDENTITY(1,1) NOT NULL,
    [id] [int] NULL,
    [range] [varchar](75) NULL,
    CONSTRAINT [PK_dim_salary_range] PRIMARY KEY CLUSTERED
(
    [salaryrange_key] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO

```

## g. Table dbo.dim\_userrole

```

CREATE TABLE [dbo].[dim_userrole](
    [userrole_key] [int] IDENTITY(1,1) NOT NULL,
    [UserRoleId] [int] NULL,
    [UserRoleName] [varchar](50) NULL,
    CONSTRAINT [PK_dim_userrole] PRIMARY KEY CLUSTERED
(
    [userrole_key] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO

```

## Lampiran 4. Script Query untuk membuat table fakta dbo.FactAlumni2

```
CREATE TABLE [dbo].[FactualAlumnus](
    [prodi_key] [int] NULL,
    [fakultas_key] [int] NULL,
    [jenispekerjaan_key] [int] NULL,
    [salaryrange_key] [int] NULL,
    [userrole_key] [int] NULL,
    [ipk] [float] NULL,
    [alumnus_key] [int] NULL
) ON [PRIMARY]

GO

ALTER TABLE [dbo].[FactualAlumnus] WITH CHECK ADD
CONSTRAINT [FK_FactualAlumnus_dim_alumnus] FOREIGN
KEY([alumnus_key])
REFERENCES [dbo].[dim_alumnus] ([alumnus_key])
GO

ALTER TABLE [dbo].[FactualAlumnus] CHECK CONSTRAINT
[FK_FactualAlumnus_dim_alumnus]
GO

ALTER TABLE [dbo].[FactualAlumnus] WITH CHECK ADD
CONSTRAINT [FK_FactualAlumnus_dim_fakultas] FOREIGN
KEY([fakultas_key])
REFERENCES [dbo].[dim_fakultas] ([fakultas_key])
GO

ALTER TABLE [dbo].[FactualAlumnus] CHECK CONSTRAINT
[FK_FactualAlumnus_dim_fakultas]
```

```
GO
```

```
ALTER TABLE [dbo].[FactualAlumnus] WITH CHECK ADD  
CONSTRAINT [FK_FactualAlumnus_dim_jenis_pekerjaan] FOREIGN  
KEY([jenispekerjaan_key])  
REFERENCES [dbo].[dim_jenis_pekerjaan] ([jenispekerjaan_key])
```

```
GO
```

```
ALTER TABLE [dbo].[FactualAlumnus] CHECK CONSTRAINT  
[FK_FactualAlumnus_dim_jenis_pekerjaan]
```

```
GO
```

```
ALTER TABLE [dbo].[FactualAlumnus] WITH CHECK ADD  
CONSTRAINT [FK_FactualAlumnus_dim_prodi] FOREIGN  
KEY([prodi_key])  
REFERENCES [dbo].[dim_prodi] ([prodi_key])
```

```
GO
```

```
ALTER TABLE [dbo].[FactualAlumnus] CHECK CONSTRAINT  
[FK_FactAlumni2_dim_prodi]
```

```
GO
```

```
ALTER TABLE [dbo].[FactualAlumnus] WITH CHECK ADD  
CONSTRAINT [FK_FactualAlumnus_dim_salary_range] FOREIGN  
KEY([salaryrange_key])  
REFERENCES [dbo].[dim_salary_range] ([salaryrange_key])
```

```
GO
```

```
ALTER TABLE [dbo].[FactualAlumnus] CHECK CONSTRAINT  
[FK_FactualAlumnus_dim_salary_range]
```

```
GO
```

```
ALTER TABLE [dbo].[FactualAlumnus] WITH CHECK ADD  
CONSTRAINT [FK_FactualAlumnus_dim_userrole] FOREIGN  
KEY([userrole_key])  
REFERENCES [dbo].[dim_userrole] ([userrole_key])  
GO  
  
ALTER TABLE [dbo].[FactualAlumnus] CHECK CONSTRAINT  
[FK_FactualAlumnus_dim_userrole]  
GO
```

Lampiran 5. Proses ETL table dbo.FactualAlumnus





Lampiran 6. Data Profil Alumni Prodi Hubungan Internasional

Nama Prodi	S1. ILMU HUBUNGAN INTERNASIONAL	Profil Alumni
<b>Ipik</b>	<b>Column Labels</b>	<b>2013 2014 2016 Grand Total</b>
<b>Row Labels</b>	<b>2012</b>	<b>2.93</b>
Abbyzar Aggasi		2.93
Wakil Dekan 2007		2.93
Abizar Al Gifari		2.93
10.000.000 - 12.500.000		3.62
Spv. Retail Kalbar 2008		3.62
Aditya Pranata		3.62
1.000.000 - 3.000.000		3.19
Teller 2007		3.19
Ahan Gaifar		3.19
1.000.000 - 3.000.000		3.57
- 2008		3.57
Afif Pratama Putra		3.57
1.000.000 - 3.000.000		3.6
Syarif Auli Auggula DFD RI 2010		3.6
Agin Prasetyo Widodo		3.6
5.000.000 - 7.500.000		3.07
Owner 2005		3.07
Ahmad Rhomih		3.07
1.000.000 - 3.000.000		3.66
Senior Advisor		3.66

Nama Prodi	S1. ILMU HUBUNGAN INTERNASIONAL	Profil Alumni
<b>Ipik</b>	<b>Column Labels</b>	<b>2013 2014 2016 Grand Total</b>
<b>Row Labels</b>	<b>2012</b>	<b>2.93</b>
Abbyzar Aggasi		2.93
Wakil Dekan 2007		2.93
Abizar Al Gifari		2.93
10.000.000 - 12.500.000		3.62
Spv. Retail Kalbar 2008		3.62
Aditya Pranata		3.62
1.000.000 - 3.000.000		3.19
Teller 2007		3.19
Ahan Gaifar		3.19
1.000.000 - 3.000.000		3.57
- 2008		3.57
Afif Pratama Putra		3.57
1.000.000 - 3.000.000		3.6
Syarif Auli Auggula DFD RI 2010		3.6
Agin Prasetyo Widodo		3.6
5.000.000 - 7.500.000		3.07
Owner 2005		3.07
Ahmad Rhomih		3.07
1.000.000 - 3.000.000		3.66
Senior Advisor		3.66

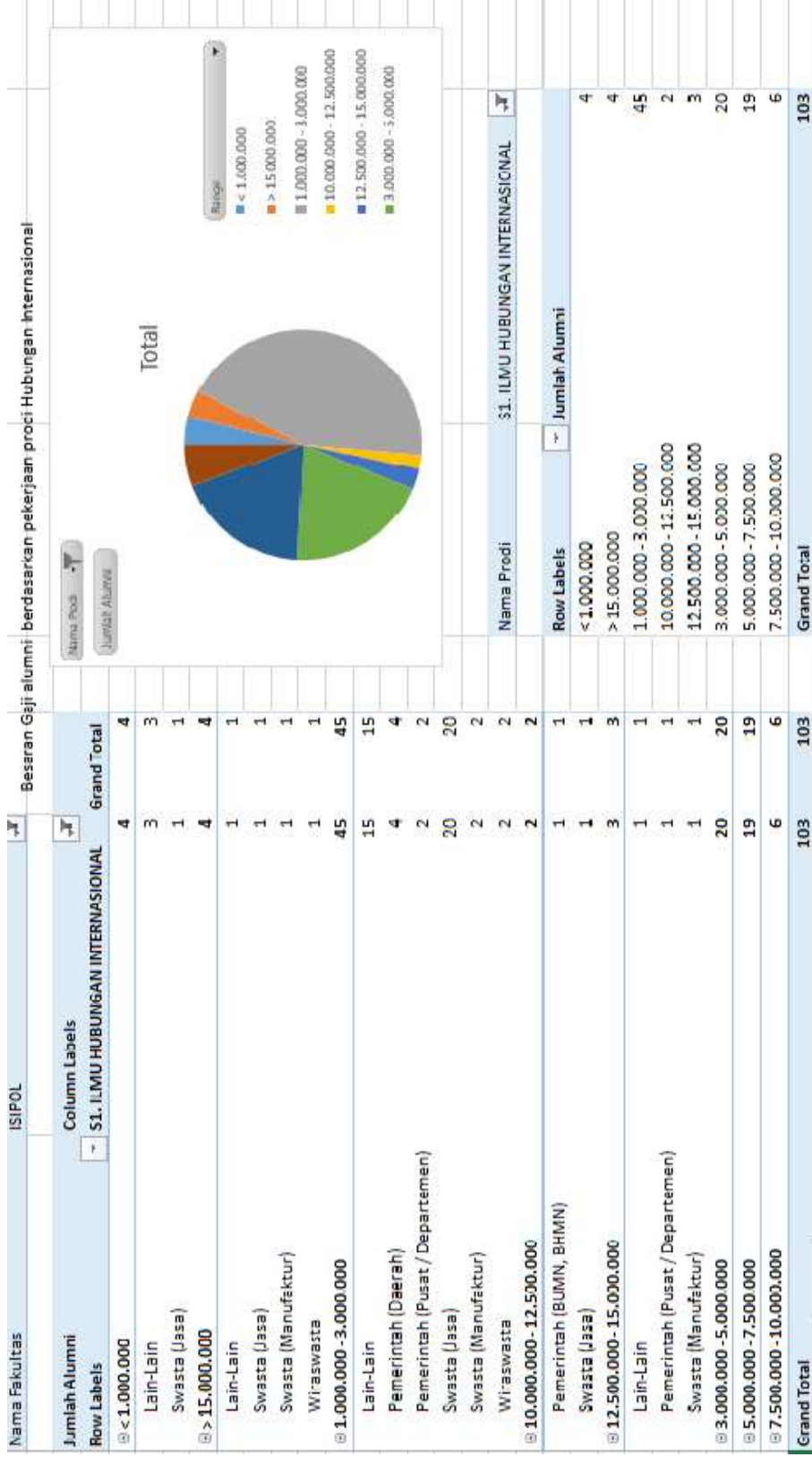
  

Nama Prodi	S1. ILMU HUBUNGAN INTERNASIONAL	Profil Alumni
<b>Ipik</b>	<b>Column Labels</b>	<b>2013 2014 2016 Grand Total</b>
<b>Row Labels</b>	<b>2012</b>	<b>2.93</b>
Abbyzar Aggasi		2.93
Wakil Dekan 2007		2.93
Abizar Al Gifari		2.93
10.000.000 - 12.500.000		3.62
Spv. Retail Kalbar 2008		3.62
Aditya Pranata		3.62
1.000.000 - 3.000.000		3.19
Teller 2007		3.19
Ahan Gaifar		3.19
1.000.000 - 3.000.000		3.57
- 2008		3.57
Afif Pratama Putra		3.57
1.000.000 - 3.000.000		3.6
Syarif Auli Auggula DFD RI 2010		3.6
Agin Prasetyo Widodo		3.6
5.000.000 - 7.500.000		3.07
Owner 2005		3.07
Ahmad Rhomih		3.07
1.000.000 - 3.000.000		3.66
Senior Advisor		3.66

Year	IPK Score
2002	3.03
2003	3.03
2004	3.47
2005	3.37
2006	3.23
2007	3.73
2008	3.88
2009	3.9
2010	3.9
2011	3.7
2012	3.88
2013	3.9
2014	3.7
2015	3.69
2016	3.93

Lampiran 7. Gaji Alumni Prodi Hubungan Internasional



Lampiran 8. IPK Alumni Prodi Hubungan Internasional

Nama Fakultas	ISIPOL	IPK Alumni prodi Hubungan Internasional	Hubungan Internasional		
<b>IpK</b>					
Row Labels		2013	2014	2016	Grand Total
S1. ILMU HUBUNGAN INTERNASIONAL		3.88	3.9	3.9	3.93
2002		3			3.03
Yodi Kharisma Santoso		2.6			2.64
Yudi Dwi Nugraha		3			3.03
2003		3			3.03
Priyo Ariyatno		3			3.03
2004		3.47			3.47
Rahmat Wahyudi		3.47			3.47
2005		3.37	3.2		3.37
Agin Prasetyo Widodo		3.07			3.07
Arief Kurniawan		2.6			2.55
Bilhuda Amirur Rachman		2.8			2.79
Burhan Hardoyo Putra		3.14			3.14
Elvi Sofiyani		3.37			3.37
Ken Savitrie			3.2		3.23
Viva Safitriyani			2.9		2.93
2006		3.23	3.2		3.23
Gitta Aryanto Nugroho		3			2.98
Kumajaya		3.16			3.16
R. Rifa Mustika		3.23			3.23
Rissa Bella Muliyawati		3.02			3.16
Taufik Az			3.2		3.02
Tubagus Agung Pamungkas			3.2		3.17
Yunargo Suryo Saputro		3.05			3.21
2007		3.73	3.4	3.1	3.05
Abbyzar Aggasi		2.93			3.73
Aditya Pranata		3.19			2.93

Tahun Judul	Total
2012	3.5
2013	3.7
2014	3.8
2016	3.9

Lampiran 9. Masa Tunggu Alumni Prodi Hubungan Internasional Mendapat Pekerjaan

