

## LAPORAN PRAKTIKUM 6

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### Langkah-Langkah Praktikum Beserta Outputnya

- Membuat database

```
create database Praktikum6;
```

- Masuk ke database

```
use Praktikum6;
```

- Buat table perusahaan

```
create table perusahaan  
(id_p varchar(10) primary key,  
nama varchar(20),  
alamat varchar(20)  
);
```

- Mengisi table

```
INSERT INTO `` (`id_p`,`nama`,`alamat`) VALUES ('P01','Kantor Pusat','');  
INSERT INTO `` (`id_p`,`nama`,`alamat`) VALUES ('P02','Cabang Bekasi','');
```

### Output

	id_p	nama	alamat
▶	P01	Kantor Pusat	
	P02	Cabang Bekasi	
*	NULL	NULL	NULL

- Buat tabel departemen

```
create table departemen (
id_dept varchar(10) primary key,
nama varchar(20),
id_p varchar(20),
manajer_nk varchar(10),
constraint fk_depatemen_perusahaan foreign key (id_p) references perusahaan(id_p)
```

```
INSERT INTO `(`id_dept`,`nama`,`id_p`,`manajer_nk`) VALUES ('D01','Produksi','P02','N01');
INSERT INTO `(`id_dept`,`nama`,`id_p`,`manajer_nk`) VALUES ('D02','Marketing','P01','N03');
INSERT INTO `(`id_dept`,`nama`,`id_p`,`manajer_nk`) VALUES ('D03','RnD','P02','');
INSERT INTO `(`id_dept`,`nama`,`id_p`,`manajer_nk`) VALUES ('D04','Logitik','P02','');
```

Output

	id_dept	nama	id_p	manajer_nk
▶	D01	Produksi	P02	N01
	D02	Marketing	P01	N03
	D03	RnD	P02	
	D04	Logitik	P02	
✱	NULL	NULL	NULL	NULL

- Buat table karyawan

```
create table karyawan (
nik varchar(10) primary key,
nama varchar(20),
id_dept varchar(20),
sup_nk varchar(10),
constraint fk_karyawan_departemen foreign key (id_dept) references departemen(id_dept)
);
```

```
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N01','Ari','D01','');
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N02','Dina','D01','');
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N03','Rika','D03','');
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N04','Ratih','D01','N01');
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N05','Riko','D01','N01');
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N06','Dani','D02','');
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N07','Anis','D02','N06');
INSERT INTO `(`nik`,`nama`,`id_dept`,`sup_nk`) VALUES ('N08','Dika','D02','N06');
```

## Output

	nik	nama	id_dept	sup_nk
▶	N01	Ari	D01	
	N02	Dina	D01	
	N03	Rika	D03	
	N04	Ratih	D01	N01
	N05	Riko	D01	N01
	N06	Dani	D02	
	N07	Anis	D02	N06
	N08	Dika	D02	N06
✱	NULL	NULL	NULL	NULL

- Buat table project

```
create table project(
  id_project varchar(10) primary key,
  nama varchar(20),
  tgl_mulai datetime,
  tgl_selesai datetime,
  status tinyint(1)
);
```

```
INSERT INTO `(`id_project`,`nama`,`tgl_mulai`,`tgl_selesai`,`status`) VALUES ('PJ01','A','2019-01-10 00:00:00','2019-03-10 00:00:00',1);
INSERT INTO `(`id_project`,`nama`,`tgl_mulai`,`tgl_selesai`,`status`) VALUES ('PJ02','B','2019-02-15 00:00:00','2019-04-10 00:00:00',1);
INSERT INTO `(`id_project`,`nama`,`tgl_mulai`,`tgl_selesai`,`status`) VALUES ('PJ03','C','2019-03-21 00:00:00','2019-05-10 00:00:00',1);
```

## Output

	id_project	nama	tgl_mulai	tgl_selesai	status
▶	PJ01	A	2019-01-10 00:00:00	2019-03-10 00:00:00	1
	PJ02	B	2019-02-15 00:00:00	2019-04-10 00:00:00	1
	PJ03	C	2019-03-21 00:00:00	2019-05-10 00:00:00	1
✱	NULL	NULL	NULL	NULL	NULL

- Buat table project detail

```
create table project_detail (
  id_project varchar(10) ,
  nik varchar(20),
  constraint fk_project_detail_karyawan foreign key (nik) references karyawan(nik)
);
```

```
INSERT INTO `(`id_project`,`nama`,`tgl_mulai`,`tgl_selesai`,`status`) VALUES ('PJ01','A','2019-01-10 00:00:00','2019-03-10 00:00:00',1);
INSERT INTO `(`id_project`,`nama`,`tgl_mulai`,`tgl_selesai`,`status`) VALUES ('PJ02','B','2019-02-15 00:00:00','2019-04-10 00:00:00',1);
INSERT INTO `(`id_project`,`nama`,`tgl_mulai`,`tgl_selesai`,`status`) VALUES ('PJ03','C','2019-03-21 00:00:00','2019-05-10 00:00:00',1);
```

### Output

	id_project	nik
	PJ01	N02
	PJ01	N03
	PJ01	N04
	PJ01	N05
	PJ01	N07
	PJ01	N08
	PJ02	N01
	PJ02	N03
	PJ02	N05
	PJ03	N03
	PJ03	N07
	PJ03	N08

### Praktikum

- Departemen apa saja yang terlibat dalam tiap-tiap project

```
select p.nama, d.nama from project p
join project_detail pd on p.id_project=pd.id_project
join karyawan k on pd.nik=k.nik
join departemen d on k.id_dept=d.id_dept;
```

### Output

	nama	nama
▶	A	Produksi
	B	Produksi
	A	Produksi
	A	Produksi
	A	Produksi
	B	Produksi
	A	Marketing
	C	Marketing
	A	Marketing
	C	Marketing
	A	RnD
	B	RnD
	C	RnD

- Jumlah karyawan tiap departemen yang bekerja pada tiap-tiap project

```
select p.nama, d.nama, count(k.nik) as jumlah_karyawan from project p
join project_detail pd on p.id_project=pd.id_project
join karyawan k on pd.nik=k.nik
join departemen d on k.id_dept=d.id_dept
group by p.nama,d.nama;
```

### Output

	nama	nama	jumlah_karyawan
▶	A	Produksi	4
	B	Produksi	2
	A	Marketing	2
	C	Marketing	2
	A	RnD	1
	B	RnD	1
	C	RnD	1

- Ada berapa project yang sedang dikerjakan oleh departemen RnD?( KETERANGAN: project berjalan adalah yang statusnya 1)

```
select count(p.id_project) as jumlah_project from project p
join project_detail pd on p.id_project=pd.id_project
join karyawan k on pd.nik=k.nik
join departemen d on k.id_dept=d.id_dept
where d.nama='RnD' and P.statuss=1;
```

### Output

	jumlah_project
▶	3

- Berapa project yang sedang dikerjakan ari

```
select count(p.id_project) as jumlah_project from project p
join project_detail pd on p.id_project=pd.id_project
join karyawan k on pd.nik=k.nik
join departemen d on k.id_dept=d.id_dept
where k.nama='ari';
```

### Output

	jumlah_project
▶	2

- Siapa yang mengerjakan proyek b

```
select k.nama from project p
join project_detail pd on p.id_project=pd.id_project
join karyawan k on pd.nik=k.nik
join departemen d on k.id_dept=d.id_dept
where p.nama='b'
```

### Output

	nama
▶	Ari
	Rika
	Riko