**DB\_COMPANY**

**1. CREATE SCRIPT**

**1. departemen**

-- Table: public.departemen

-- DROP TABLE IF EXISTS public.departemen;

CREATE TABLE IF NOT EXISTS public.departemen

(

nomor\_departemen integer NOT NULL,

nama\_departemen character(20) COLLATE pg\_catalog."default",

id\_employee integer,

mgr\_start\_date date,

CONSTRAINT departemen\_pkey PRIMARY KEY (nomor\_departemen),

CONSTRAINT fk\_employee FOREIGN KEY (id\_employee)

REFERENCES public.employee (ssn) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.departemen

OWNER to postgres;

**2. dependen**

-- Table: public.dependen

-- DROP TABLE IF EXISTS public.dependen;

CREATE TABLE IF NOT EXISTS public.dependen

(

id\_dependen integer NOT NULL DEFAULT nextval('dependent\_id\_dependent\_seq'::regclass),

id\_employee integer,

nama\_dependen character(20) COLLATE pg\_catalog."default",

gender gender,

tgl\_lahir date,

hubungan hubungan,

CONSTRAINT dependent\_pkey PRIMARY KEY (id\_dependen),

CONSTRAINT fk\_employee FOREIGN KEY (id\_employee)

REFERENCES public.employee (ssn) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.dependen

OWNER to postgres;

**3. employee**

-- Table: public.employee

-- DROP TABLE IF EXISTS public.employee;

CREATE TABLE IF NOT EXISTS public.employee

(

ssn numeric(20,0) NOT NULL,

nama\_depan character(20) COLLATE pg\_catalog."default" NOT NULL,

nama\_tengah character(20) COLLATE pg\_catalog."default",

nama\_belakang character(20) COLLATE pg\_catalog."default",

tgl\_lahir date,

alamat text COLLATE pg\_catalog."default",

gender gender,

gaji bigint,

CONSTRAINT employee\_pkey PRIMARY KEY (ssn)

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.employee

OWNER to postgres;

**4. lokasi departemen**

-- Table: public.lokasi\_departemen

-- DROP TABLE IF EXISTS public.lokasi\_departemen;

CREATE TABLE IF NOT EXISTS public.lokasi\_departemen

(

id\_lokasi integer NOT NULL DEFAULT nextval('lokasi\_departemen\_id\_lokasi\_seq'::regclass),

id\_departemen integer,

nama\_lokasi character(30) COLLATE pg\_catalog."default",

CONSTRAINT lokasi\_departemen\_pkey PRIMARY KEY (id\_lokasi),

CONSTRAINT fk\_departemen FOREIGN KEY (id\_departemen)

REFERENCES public.departemen (nomor\_departemen) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.lokasi\_departemen

OWNER to postgres;

**5. projek**

-- Table: public.projek

-- DROP TABLE IF EXISTS public.projek;

CREATE TABLE IF NOT EXISTS public.projek

(

nomor\_projek integer NOT NULL,

nama\_projek character(20) COLLATE pg\_catalog."default",

lokasi\_projek character(20) COLLATE pg\_catalog."default",

id\_departemen integer,

CONSTRAINT projek\_pkey PRIMARY KEY (nomor\_projek),

CONSTRAINT fk\_departemen FOREIGN KEY (id\_departemen)

REFERENCES public.departemen (nomor\_departemen) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.projek

OWNER to postgres;

**6. works on**

-- Table: public.works\_on

-- DROP TABLE IF EXISTS public.works\_on;

CREATE TABLE IF NOT EXISTS public.works\_on

(

id\_workson integer NOT NULL DEFAULT nextval('works\_on\_id\_workson\_seq'::regclass),

id\_employee integer,

id\_projek integer,

jam integer,

CONSTRAINT works\_on\_pkey PRIMARY KEY (id\_workson),

CONSTRAINT fk\_employee FOREIGN KEY (id\_employee)

REFERENCES public.employee (ssn) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION,

CONSTRAINT fk\_projek FOREIGN KEY (id\_projek)

REFERENCES public.projek (nomor\_projek) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.works\_on

OWNER to postgres;

**2. INSERT DATA**

insert into employee values

(34242, 'chandra', 'jackson', 'aja', '2022-01-01', 'jln. perkantoran no.8', 'male', 536352),

(12242, 'nami', '', 'aja', '2022-02-01', 'jln. perkantoran no.9', 'female', 236352),

(44242, 'robin', '', '', '2022-03-01', 'jln. perkantoran no.10', 'female', 136352),

(84242, 'usop', 'jackson', 'aja', '2022-04-01', 'jln. perkantoran no.11', 'male', 936352)

insert into employee values

(5, 'chandra', 'nishakara', 'aja', '2022-01-01', 'jln. perkantoran no.12', 'male', 526352),

(6, 'bison', '', 'aja', '2022-02-01', 'jln. perkantoran no.12', 'female', 231352),

(7, 'lance', '', '', '2022-03-01', 'jln. perkantoran no.14', 'female', 936352),

(8, 'chopper', 'jacie', 'aja', '2022-04-01', 'jln. perkantoran no.16', 'male', 436352)

insert into dependen values

(1, 34242, 'chandra', 'male', '2022-01-01', 'internal'),

(2, 34242, 'mihawk', 'male', '2021-02-01', 'eksternal'),

(3, 44242, 'law', 'male', '2020-01-01', 'eksternal'),

(4, 44242, 'roger', 'male', '2019-01-01', 'internal')

insert into departemen values

(1, 'it', 34242, '2020-01-01'),

(2, 'human resource', 12242, '2021-01-01'),

(3, 'sales', 84242, '2022-01-01'),

(4, 'it', 84242, '2019-01-01')

insert into projek values

(6, 'jakarta-fest', 'jakarta selatan', 1),

(7, 'bandung-fest', 'bandung', 1),

(8, 'palembang-fest', 'palembang', 1),

(9, 'bali-fest', 'bali', 4),

(10, 'japan-fest', 'japan', 5)

insert into lokasi\_departemen values

(1, 1, 'malaysia'),

(2, 3, 'indonesia'),

(3, 2, 'palembang')

Insert into works\_on values

(1, 12242, 4, 20),

(2, 84242, 2, 100),

(3, 34242, 3, 300),

(4, 34242, 4, 2)

**3. QUERY**

3.A **Tampilkan dependent\_name dan relationship dengan employee yang namanya diawali huruf R ?**

select d.nama\_dependen, e.nama\_depan from dependen as d

inner join employee as e on d.id\_employee = e.ssn

where e.nama\_depan LIKE 'r%';

3.B **Banyaknya employee yang mengerjakan project PNum = 1 ?**

SELECT COUNT(id\_employee) AS projek\_nomor\_1 FROM works\_on

where id\_projek = 1;

3.C **Banyaknya employee yang memiliki salary lebih dari 900000?**

select \* from employee as e

where e.gaji > 900000

3.D **Banyaknya project yang dikerjakan DNum =2 ?**

select count(p.id\_departemen) as projek\_departemen\_2 from projek as p

where p.id\_departemen = 2

3.E **Hitung total dan rata-rata salary dari setiap departemen ?**

3.F

3.G

3.I

3.J

3.K

3.L

3.M

3.N

3.0

**DB\_MELODI\_INDAH**

**1. CREATE SCRIPT**

**1.1 public.tb\_pemusik**

-- DROP TABLE IF EXISTS public.tb\_pemusik;

CREATE TABLE IF NOT EXISTS public.tb\_pemusik

(

ssn numeric(20,0) NOT NULL,

nama\_pemusik character(50) COLLATE pg\_catalog."default" NOT NULL,

alamat text COLLATE pg\_catalog."default",

no\_tlp numeric(15,0) NOT NULL,

CONSTRAINT tb\_pemusik\_pkey PRIMARY KEY (ssn)

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_pemusik

OWNER to postgres;

**1.2 public.tb\_instrumen**

-- DROP TABLE IF EXISTS public.tb\_instrumen;

CREATE TABLE IF NOT EXISTS public.tb\_instrumen

(

id\_instrumen integer NOT NULL DEFAULT nextval('tb\_instrumen\_id\_instrumen\_seq'::regclass),

nama\_instrumen character(30) COLLATE pg\_catalog."default",

kunci\_musik kunci\_musik,

CONSTRAINT tb\_instrumen\_pkey PRIMARY KEY (id\_instrumen)

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_instrumen

OWNER to postgres;

**1.3 public.tb\_pengarang**

-- DROP TABLE IF EXISTS public.tb\_pengarang;

CREATE TABLE IF NOT EXISTS public.tb\_pengarang

(

id\_pengarang integer NOT NULL DEFAULT nextval('tb\_pengarang\_id\_pengarang\_seq'::regclass),

nama\_pengarang character(50) COLLATE pg\_catalog."default",

CONSTRAINT tb\_pengarang\_pkey PRIMARY KEY (id\_pengarang)

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_pengarang

OWNER to postgres;

**1.4 public.tb\_lagu**

-- DROP TABLE IF EXISTS public.tb\_lagu;

CREATE TABLE IF NOT EXISTS public.tb\_lagu

(

id\_lagu integer NOT NULL DEFAULT nextval('tb\_lagu\_id\_lagu\_seq'::regclass),

id\_pengarang integer,

judul\_lagu character(50) COLLATE pg\_catalog."default",

CONSTRAINT tb\_lagu\_pkey PRIMARY KEY (id\_lagu),

CONSTRAINT fk\_pengarang FOREIGN KEY (id\_pengarang)

REFERENCES public.tb\_pengarang (id\_pengarang) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_lagu

OWNER to postgres;

**1.5 public.tb\_album**

-- DROP TABLE IF EXISTS public.tb\_album;

CREATE TABLE IF NOT EXISTS public.tb\_album

(

id\_album integer NOT NULL DEFAULT nextval('tb\_album\_id\_album\_seq'::regclass),

id\_lagu integer NOT NULL,

nama\_album character(50) COLLATE pg\_catalog."default" NOT NULL,

tgl\_copyright date NOT NULL,

format\_album format\_album NOT NULL,

CONSTRAINT tb\_album\_pkey PRIMARY KEY (id\_album),

CONSTRAINT fk\_lagu FOREIGN KEY (id\_lagu)

REFERENCES public.tb\_lagu (id\_lagu) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_album

OWNER to postgres;

**1.6 public.tb\_instrumen\_musisi**

-- DROP TABLE IF EXISTS public.tb\_instrumen\_musisi;

CREATE TABLE IF NOT EXISTS public.tb\_instrumen\_musisi

(

id\_instrumen\_musisi integer NOT NULL DEFAULT nextval('tb\_instrumen\_musisi\_id\_instrumen\_musisi\_seq'::regclass),

id\_musisi integer,

id\_instrumen integer,

CONSTRAINT tb\_instrumen\_musisi\_pkey PRIMARY KEY (id\_instrumen\_musisi),

CONSTRAINT fk\_instrumen FOREIGN KEY (id\_instrumen)

REFERENCES public.tb\_instrumen (id\_instrumen) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION,

CONSTRAINT fk\_musisi FOREIGN KEY (id\_musisi)

REFERENCES public.tb\_pemusik (ssn) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_instrumen\_musisi

OWNER to postgres;

**1.7 public.tb\_musisi\_lagu**

-- DROP TABLE IF EXISTS public.tb\_musisi\_lagu;

CREATE TABLE IF NOT EXISTS public.tb\_musisi\_lagu

(

id\_musisi\_lagu integer NOT NULL DEFAULT nextval('tb\_musisi\_lagu\_id\_musisi\_lagu\_seq'::regclass),

id\_musisi integer NOT NULL,

id\_lagu integer NOT NULL,

CONSTRAINT tb\_musisi\_lagu\_pkey PRIMARY KEY (id\_musisi\_lagu),

CONSTRAINT fk\_lagu FOREIGN KEY (id\_lagu)

REFERENCES public.tb\_lagu (id\_lagu) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION,

CONSTRAINT fk\_musisi FOREIGN KEY (id\_musisi)

REFERENCES public.tb\_pemusik (ssn) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_musisi\_lagu

OWNER to postgres;

**1.8 public.tb\_produser**

-- DROP TABLE IF EXISTS public.tb\_produser;

CREATE TABLE IF NOT EXISTS public.tb\_produser

(

id\_produser integer NOT NULL DEFAULT nextval('tb\_produser\_id\_produser\_seq'::regclass),

id\_musisi integer NOT NULL,

id\_album integer NOT NULL,

CONSTRAINT tb\_produser\_pkey PRIMARY KEY (id\_produser),

CONSTRAINT fk\_album FOREIGN KEY (id\_album)

REFERENCES public.tb\_album (id\_album) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION,

CONSTRAINT fk\_musisi FOREIGN KEY (id\_musisi)

REFERENCES public.tb\_pemusik (ssn) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tb\_produser

OWNER to postgres;

**2. INSERT DATA**

insert into tb\_pemusik values

(134658123, 'chandra', 'jln. ansi no 8', 23425643),

(234658167, 'nami', 'jln. sinsa no 9', 23455643),

(334652343, 'brook', 'jln. orange no 7', 8924643),

(434567663, 'usop', 'jln. malky no 7', 27825643),

(534634553, 'sanji', 'jln. ways no 6', 45725643)

insert into tb\_instrumen values

(1, 'gitar', 'C'),

(2, 'flute', 'A'),

(3, 'piano', 'B#')

insert into tb\_pengarang values

(1, 'jacob'),

(2, 'arial'),

(3, 'violet')

insert into tb\_lagu values

(1, 3, 'dark'),

(2, 1, 'versace on the floor'),

(3, 2, 'treasure')

insert into tb\_album values

(1, 1, 'album a', '2022-01-01', 'CD'),

(2, 1, 'album b', '2022-02-01', 'CD'),

(3, 2, 'album b', '2022-03-01', 'MC')

insert into tb\_instrumen\_musisi values

(1, 134658123, 2),

(2, 234658167, 1),

(3, 334652343, 3),

(4, 334652343, 1),

(5, 334652343, 2),

(6, 434567663, 1)

insert into tb\_musisi\_lagu values

(1, 234658167, 3),

(2, 234658167, 2),

(3, 234658167, 2),

(4, 234658167, 2)

insert into tb\_produser values

(234658167, 2),

(234658167, 2),

(334652343, 1),

(334652343, 3)

**3. QUERY**

**3.1 Judul lagu & Nama album**

select l.judul\_lagu, a.nama\_album, a.tgl\_copyright, a.format\_album

from tb\_album as a

left join tb\_lagu as l on a.id\_lagu = l.id\_lagu

**3.2. nama-nama instrumen**

select \* from tb\_instrumen

**3.3. nama-nama musisi**

select \* from tb\_pemusik

**3.4. nama-nama pengarang**

select \* from tb\_pengarang

**3.5. instrumen yang dipakai musisi**

select p.nama\_pemusik, i.nama\_instrumen from tb\_instrumen\_musisi as im

left join tb\_pemusik as p on im.id\_musisi = p.ssn

left join tb\_instrumen as i on im.id\_instrumen = i.id\_instrumen

**3.6. nama lagu dan pengarang**

select p.nama\_pengarang, l.judul\_lagu from tb\_lagu as l

left join tb\_pengarang as p on l.id\_pengarang = p.id\_pengarang

**3.7. nama musisi dan lagu**

select p.nama\_pemusik, l.judul\_lagu from tb\_musisi\_lagu as ml

left join tb\_pemusik as p on ml.id\_musisi = p.ssn

left join tb\_lagu as l on ml.id\_lagu = l.id\_lagu

**1.8. produser musik**

select p.id\_produser, z.nama\_pemusik, a.nama\_album from tb\_produser as p

left join tb\_pemusik as z on p.id\_musisi = z.ssn

left join tb\_album as a on p.id\_album = a.id\_album