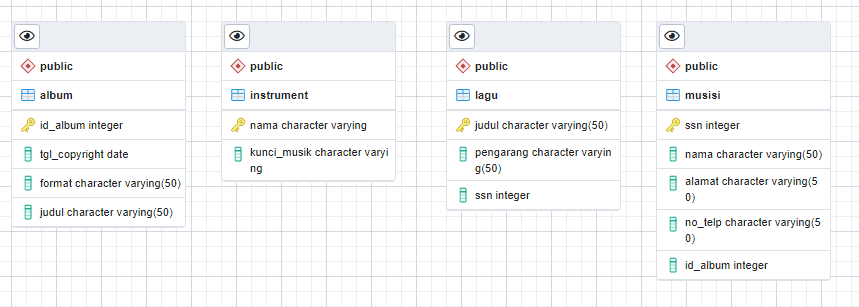
**NAMA : M. MACHRUSH ALIY SIROJJAM MUSHLICH**

**\_\_\_**

**REQUIREMENT 1**

1. Tampilan ERD



1. SQL

--

-- PostgreSQL database dump

--

-- Dumped from database version 14.3

-- Dumped by pg\_dump version 14.3

-- Started on 2022-06-22 10:14:45

SET statement\_timeout = 0;

SET lock\_timeout = 0;

SET idle\_in\_transaction\_session\_timeout = 0;

SET client\_encoding = 'UTF8';

SET standard\_conforming\_strings = on;

SELECT pg\_catalog.set\_config('search\_path', '', false);

SET check\_function\_bodies = false;

SET xmloption = content;

SET client\_min\_messages = warning;

SET row\_security = off;

DROP DATABASE pt\_melodi;

--

-- TOC entry 3331 (class 1262 OID 24578)

-- Name: pt\_melodi; Type: DATABASE; Schema: -; Owner: jampirojam

--

CREATE DATABASE pt\_melodi WITH TEMPLATE = template0 ENCODING = 'UTF8' LOCALE = 'English\_Indonesia.1252';

ALTER DATABASE pt\_melodi OWNER TO jampirojam;

\connect pt\_melodi

SET statement\_timeout = 0;

SET lock\_timeout = 0;

SET idle\_in\_transaction\_session\_timeout = 0;

SET client\_encoding = 'UTF8';

SET standard\_conforming\_strings = on;

SELECT pg\_catalog.set\_config('search\_path', '', false);

SET check\_function\_bodies = false;

SET xmloption = content;

SET client\_min\_messages = warning;

SET row\_security = off;

--

-- TOC entry 3 (class 2615 OID 2200)

-- Name: public; Type: SCHEMA; Schema: -; Owner: postgres

--

CREATE SCHEMA public;

ALTER SCHEMA public OWNER TO postgres;

--

-- TOC entry 3332 (class 0 OID 0)

-- Dependencies: 3

-- Name: SCHEMA public; Type: COMMENT; Schema: -; Owner: postgres

--

COMMENT ON SCHEMA public IS 'standard public schema';

SET default\_tablespace = '';

SET default\_table\_access\_method = heap;

--

-- TOC entry 210 (class 1259 OID 24606)

-- Name: album; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.album (

id\_album integer NOT NULL,

tgl\_copyright date NOT NULL,

format character varying(50) NOT NULL,

judul character varying(50) NOT NULL

);

ALTER TABLE public.album OWNER TO postgres;

--

-- TOC entry 212 (class 1259 OID 24616)

-- Name: instrument; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.instrument (

nama character varying NOT NULL,

kunci\_musik character varying NOT NULL

);

ALTER TABLE public.instrument OWNER TO postgres;

--

-- TOC entry 211 (class 1259 OID 24611)

-- Name: lagu; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.lagu (

judul character varying(50) NOT NULL,

pengarang character varying(50) NOT NULL,

ssn integer NOT NULL

);

ALTER TABLE public.lagu OWNER TO postgres;

--

-- TOC entry 209 (class 1259 OID 24601)

-- Name: musisi; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.musisi (

ssn integer NOT NULL,

nama character varying(50) NOT NULL,

alamat character varying(50),

no\_telp character varying(50) NOT NULL,

id\_album integer NOT NULL

);

ALTER TABLE public.musisi OWNER TO postgres;

--

-- TOC entry 3323 (class 0 OID 24606)

-- Dependencies: 210

-- Data for Name: album; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.album (id\_album, tgl\_copyright, format, judul) VALUES (1, '2022-06-17', 'Digital Album

', 'New Era

');

INSERT INTO public.album (id\_album, tgl\_copyright, format, judul) VALUES (6, '2020-01-03', 'Compact Disk', 'Melela Rasa');

INSERT INTO public.album (id\_album, tgl\_copyright, format, judul) VALUES (2, '2017-09-08', 'Digital Album', 'Gaya Jongkok');

INSERT INTO public.album (id\_album, tgl\_copyright, format, judul) VALUES (3, '2011-11-11', 'Compact Disk', 'Enak Naik Apa Turun?');

INSERT INTO public.album (id\_album, tgl\_copyright, format, judul) VALUES (4, '2022-02-02', 'Digital Album', 'Flying Fox');

INSERT INTO public.album (id\_album, tgl\_copyright, format, judul) VALUES (5, '2022-06-17', 'Digital Album', 'New Era!');

--

-- TOC entry 3325 (class 0 OID 24616)

-- Dependencies: 212

-- Data for Name: instrument; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.instrument (nama, kunci\_musik) VALUES ('Gitar', 'Mayor');

INSERT INTO public.instrument (nama, kunci\_musik) VALUES ('Triangle

', 'Minor');

INSERT INTO public.instrument (nama, kunci\_musik) VALUES ('Tifa', 'Mayor');

INSERT INTO public.instrument (nama, kunci\_musik) VALUES ('Piano', 'Minor');

INSERT INTO public.instrument (nama, kunci\_musik) VALUES ('Seruling', 'Mayor');

INSERT INTO public.instrument (nama, kunci\_musik) VALUES ('Drum', 'Mayor');

--

-- TOC entry 3324 (class 0 OID 24611)

-- Dependencies: 211

-- Data for Name: lagu; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.lagu (judul, pengarang, ssn) VALUES ('Kucumbu Rayu Tubuh Indahku', 'Fajar Nugros', 1);

INSERT INTO public.lagu (judul, pengarang, ssn) VALUES ('Flying High', 'Aki Aki

', 2);

INSERT INTO public.lagu (judul, pengarang, ssn) VALUES ('Aku Nelongso', 'Didi Kemplo', 3);

--

-- TOC entry 3322 (class 0 OID 24601)

-- Dependencies: 209

-- Data for Name: musisi; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.musisi (ssn, nama, alamat, no\_telp, id\_album) VALUES (1, 'Fajar Nugros', 'Jakarta', '089000001', 2);

INSERT INTO public.musisi (ssn, nama, alamat, no\_telp, id\_album) VALUES (2, 'Shani Indira Natio', 'Yogyakarta

', '087000001', 5);

INSERT INTO public.musisi (ssn, nama, alamat, no\_telp, id\_album) VALUES (3, 'Tan Zhi Hui Celine', 'Kuala Lumpur', '088000001', 3);

INSERT INTO public.musisi (ssn, nama, alamat, no\_telp, id\_album) VALUES (4, 'Efek Kuroptor', 'Jakarta', '081000001', 1);

--

-- TOC entry 3178 (class 2606 OID 24610)

-- Name: album album\_id\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.album

ADD CONSTRAINT album\_id\_pk PRIMARY KEY (id\_album);

--

-- TOC entry 3180 (class 2606 OID 24615)

-- Name: lagu lagu\_judul\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.lagu

ADD CONSTRAINT lagu\_judul\_pk PRIMARY KEY (judul);

--

-- TOC entry 3176 (class 2606 OID 24605)

-- Name: musisi musisi\_ssn\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.musisi

ADD CONSTRAINT musisi\_ssn\_pk PRIMARY KEY (ssn);

--

-- TOC entry 3182 (class 2606 OID 24622)

-- Name: instrument nama\_instrument; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.instrument

ADD CONSTRAINT nama\_instrument PRIMARY KEY (nama);

-- Completed on 2022-06-22 10:14:45

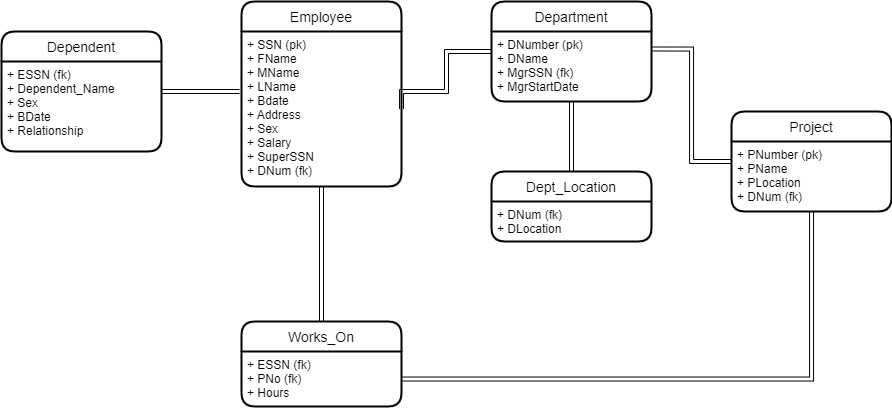
--

-- PostgreSQL database dump complete

--

**REQUIREMENT 2**

1. Tampilan ERD



1. SQL

--

-- PostgreSQL database dump

--

-- Dumped from database version 14.3

-- Dumped by pg\_dump version 14.3

-- Started on 2022-06-22 09:34:55

SET statement\_timeout = 0;

SET lock\_timeout = 0;

SET idle\_in\_transaction\_session\_timeout = 0;

SET client\_encoding = 'UTF8';

SET standard\_conforming\_strings = on;

SELECT pg\_catalog.set\_config('search\_path', '', false);

SET check\_function\_bodies = false;

SET xmloption = content;

SET client\_min\_messages = warning;

SET row\_security = off;

DROP DATABASE company;

--

-- TOC entry 3356 (class 1262 OID 24623)

-- Name: company; Type: DATABASE; Schema: -; Owner: jampirojam

--

CREATE DATABASE company WITH TEMPLATE = template0 ENCODING = 'UTF8' LOCALE = 'English\_Indonesia.1252';

ALTER DATABASE company OWNER TO jampirojam;

\connect company

SET statement\_timeout = 0;

SET lock\_timeout = 0;

SET idle\_in\_transaction\_session\_timeout = 0;

SET client\_encoding = 'UTF8';

SET standard\_conforming\_strings = on;

SELECT pg\_catalog.set\_config('search\_path', '', false);

SET check\_function\_bodies = false;

SET xmloption = content;

SET client\_min\_messages = warning;

SET row\_security = off;

--

-- TOC entry 3 (class 2615 OID 2200)

-- Name: public; Type: SCHEMA; Schema: -; Owner: postgres

--

CREATE SCHEMA public;

ALTER SCHEMA public OWNER TO postgres;

--

-- TOC entry 3357 (class 0 OID 0)

-- Dependencies: 3

-- Name: SCHEMA public; Type: COMMENT; Schema: -; Owner: postgres

--

COMMENT ON SCHEMA public IS 'standard public schema';

SET default\_tablespace = '';

SET default\_table\_access\_method = heap;

--

-- TOC entry 210 (class 1259 OID 24634)

-- Name: department; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.department (

dnumber integer NOT NULL,

dname character varying(15) NOT NULL,

mgrssn character(9) NOT NULL,

mgrstartdate date

);

ALTER TABLE public.department OWNER TO postgres;

--

-- TOC entry 214 (class 1259 OID 24683)

-- Name: dependent; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.dependent (

essn character(9) NOT NULL,

dependent\_name character varying(15) NOT NULL,

sex character(1),

bdate date,

relationship character varying(8)

);

ALTER TABLE public.dependent OWNER TO postgres;

--

-- TOC entry 211 (class 1259 OID 24646)

-- Name: dept\_locations; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.dept\_locations (

dnum integer NOT NULL,

dlocation character varying(15) NOT NULL

);

ALTER TABLE public.dept\_locations OWNER TO postgres;

--

-- TOC entry 209 (class 1259 OID 24624)

-- Name: employee; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.employee (

ssn character(9) NOT NULL,

fname character varying(15) NOT NULL,

mname character(1),

lname character varying(15) NOT NULL,

bdate date,

address character varying(30),

sex character(1),

salary numeric(10,2),

superssn character(9),

dnum integer NOT NULL

);

ALTER TABLE public.employee OWNER TO postgres;

--

-- TOC entry 212 (class 1259 OID 24656)

-- Name: project; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.project (

pnumber integer NOT NULL,

pname character varying(15) NOT NULL,

plocation character varying(15),

dnum integer NOT NULL

);

ALTER TABLE public.project OWNER TO postgres;

--

-- TOC entry 213 (class 1259 OID 24668)

-- Name: works\_on; Type: TABLE; Schema: public; Owner: postgres

--

CREATE TABLE public.works\_on (

essn character(9) NOT NULL,

pnum integer NOT NULL,

hours numeric(3,1) NOT NULL

);

ALTER TABLE public.works\_on OWNER TO postgres;

--

-- TOC entry 3346 (class 0 OID 24634)

-- Dependencies: 210

-- Data for Name: department; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.department (dnumber, dname, mgrssn, mgrstartdate) VALUES (1, 'HRD', 'E001 ', '2002-01-09');

INSERT INTO public.department (dnumber, dname, mgrssn, mgrstartdate) VALUES (2, 'FINANCE', 'E002 ', '2003-02-27');

INSERT INTO public.department (dnumber, dname, mgrssn, mgrstartdate) VALUES (3, 'HUMAS', 'E003 ', '2006-05-30');

INSERT INTO public.department (dnumber, dname, mgrssn, mgrstartdate) VALUES (4, 'PRODUKSI', 'E004 ', '2005-03-08');

--

-- TOC entry 3350 (class 0 OID 24683)

-- Dependencies: 214

-- Data for Name: dependent; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E001 ', 'Rita', 'F', '2005-09-18', 'DAUGHTER');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E001 ', 'Doni', 'M', '2007-01-09', 'SON');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E002 ', 'Wawan', 'M', '1984-10-23', 'HUSBAND');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E002 ', 'Roy', 'M', '2006-12-15', 'SON');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E003 ', 'Roni', 'M', '1985-08-23', 'HUSBAND');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E003 ', 'Dewi', 'F', '2006-01-01', 'DAUGHTER');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E004 ', 'Susi', 'F', '1987-09-05', 'WIFE');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E004 ', 'Rani', 'M', '2007-02-10', 'DAUGHTER');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E011 ', 'Dina', 'F', '1987-01-13', 'WIFE');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E011 ', 'Riko', 'M', '2006-03-21', 'SON');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E013 ', 'Rini', 'F', '1987-08-15', 'WIFE');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E013 ', 'Tina', 'F', '2005-12-17', 'DAUGHTER');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E014 ', 'Ayu', 'F', '1988-12-08', 'WIFE');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E014 ', 'Didiet', 'M', '2006-12-05', 'SON');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E015 ', 'Nita', 'F', '1987-01-25', 'WIFE');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E015 ', 'Serly', 'F', '1999-03-26', 'WIFE');

INSERT INTO public.dependent (essn, dependent\_name, sex, bdate, relationship) VALUES ('E012 ', 'OKan', 'M', '2001-06-11', 'SON');

--

-- TOC entry 3347 (class 0 OID 24646)

-- Dependencies: 211

-- Data for Name: dept\_locations; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.dept\_locations (dnum, dlocation) VALUES (1, 'Darmaga');

INSERT INTO public.dept\_locations (dnum, dlocation) VALUES (3, 'Darmaga');

INSERT INTO public.dept\_locations (dnum, dlocation) VALUES (2, 'Darmaga');

INSERT INTO public.dept\_locations (dnum, dlocation) VALUES (4, 'Baranang Siang');

--

-- TOC entry 3345 (class 0 OID 24624)

-- Dependencies: 209

-- Data for Name: employee; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E022 ', 'Lin', 'J', 'Cai', '1989-05-09', 'LOCK DOWN', 'M', 9490000.00, 'E004 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E023 ', 'Rin', NULL, 'Jincai', '1979-05-09', 'LOCK DOWN', 'M', 9190000.00, 'E011 ', 2);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E024 ', 'Mach', NULL, 'Rush', '1969-05-18', 'DOWN TOWN', 'M', 9990000.00, 'E013 ', 3);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E025 ', 'Dedek', NULL, 'Gembul', '1999-05-09', 'KINGDOM HEART II', 'M', 45960000.00, 'E012 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E002 ', 'Yuni', NULL, 'Arti', '1987-02-15', 'GOTHAM JELLY', 'F', 4000000.00, NULL, 2);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E004 ', 'Hanif', NULL, 'Affandi', '1987-01-21', 'GOTHAM JELLY', 'M', 4000000.00, NULL, 4);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E011 ', 'Yuhan', 'A', 'Kusuma', '1987-03-16', 'GOTHAM JELLY', 'M', 2500000.00, 'E002 ', 2);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E015 ', 'Herbet', NULL, 'Sianipar', '1987-07-16', 'GOTHAM JELLY', 'M', 3750000.00, 'E003 ', 3);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E020 ', 'Rojam', 'G', 'Sih', '1986-08-19', 'GOTHAM JELLY', 'M', 7400000.00, 'E003 ', 4);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E019 ', 'Aliyah', 'S', 'Mush', '1996-08-19', 'MOCKING BIRD', 'F', 3400000.00, 'E001 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E001 ', 'Hakim', NULL, 'Arifin', '1987-01-12', 'KINKY SENKY SIMILIKITY', 'M', 4000000.00, NULL, 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E003 ', 'Mutia', NULL, 'Aziza', '1987-03-23', 'KINKY SENKY SIMILIKITY', 'F', 4000000.00, NULL, 3);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E007 ', 'Rifki', 'Y', 'Haidar', '1987-08-02', 'KINKY SENKY SIMILIKITY', 'M', 3000000.00, 'E001 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E010 ', 'Andi', NULL, 'Sasmita', '1987-02-15', 'KINKY SENKY SIMILIKITY', 'M', 3000000.00, 'E002 ', 2);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E012 ', 'Ferdian', NULL, 'Feisal', '1987-03-23', 'KINKY SENKY SIMILIKITY', 'M', 2000000.00, 'E002 ', 2);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E017 ', 'Rickson', 'W', 'Fernando', '1997-05-09', 'ORBA 2.0 BETA VERSION', 'M', 9000000.00, 'E003 ', 2);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E006 ', 'Pritasri', NULL, 'Palupiningsih', '1987-12-09', 'ORBA 2.0 BETA VERSION', 'F', 3500000.00, 'E001 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E014 ', 'Benedika', 'F', 'Hutabarat', '1987-06-21', 'ORBA 2.0 BETA VERSION', 'M', 3250000.00, 'E003 ', 3);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E008 ', 'Muhammad', 'A', 'Rosyidi', '1987-06-22', 'ORBA 2.0 BETA VERSION', 'M', 2750000.00, 'E001 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E016 ', 'Ferguso', NULL, 'OTidakBisa', '1998-09-16', 'MOCKING BIRD', 'M', 5750000.00, 'E003 ', 3);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E005 ', 'Vera', NULL, 'Yunita', '1987-05-16', 'MOCKING BIRD', 'F', 3500000.00, 'E001 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E018 ', 'Machrush', 'A', 'Siro', '1987-05-04', 'KINGDOM HEART II', 'M', 19000000.00, 'E007 ', 1);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E021 ', 'Ryu', 'J', 'Kan', '1976-01-11', 'KINGDOM HEART II', 'M', 7400000.00, 'E003 ', 3);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E013 ', 'Albertus', 'A', 'M', '1986-05-22', 'KINGDOM HEART II', 'M', 3000000.00, 'E003 ', 3);

INSERT INTO public.employee (ssn, fname, mname, lname, bdate, address, sex, salary, superssn, dnum) VALUES ('E009 ', 'Ferry', NULL, 'Pratama', '1987-07-11', 'KINGDOM HEART II', 'M', 3000000.00, 'E002 ', 2);

--

-- TOC entry 3348 (class 0 OID 24656)

-- Dependencies: 212

-- Data for Name: project; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (1, 'AAA', 'Bogor', 1);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (2, 'BBB', 'Jakarta', 2);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (3, 'CCC', 'Tangerang', 2);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (4, 'DDD', 'Bekasi', 2);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (5, 'EEE', 'Depok', 3);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (6, 'FFF', 'Bogor', 3);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (7, 'GGG', 'Tangerang', 4);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (8, 'HHH', 'Jakarta', 4);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (9, 'III', 'Jakarta', 2);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (10, 'JJJ', 'Gresik', 2);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (11, 'KKK', 'Surabaya', 1);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (12, 'LLL', 'Surabaya', 3);

INSERT INTO public.project (pnumber, pname, plocation, dnum) VALUES (13, 'MMM', 'Gresik', 2);

--

-- TOC entry 3349 (class 0 OID 24668)

-- Dependencies: 213

-- Data for Name: works\_on; Type: TABLE DATA; Schema: public; Owner: postgres

--

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E001 ', 1, 90.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E001 ', 2, 98.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E002 ', 2, 55.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E002 ', 3, 78.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E003 ', 3, 53.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E003 ', 4, 77.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E004 ', 4, 77.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E004 ', 5, 98.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E004 ', 7, 85.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E004 ', 8, 68.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E005 ', 5, 57.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E005 ', 6, 87.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E006 ', 7, 45.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E006 ', 6, 87.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E007 ', 7, 40.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E007 ', 8, 88.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E008 ', 1, 78.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E008 ', 8, 87.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E009 ', 1, 88.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E009 ', 2, 65.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E010 ', 2, 34.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E010 ', 3, 78.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E011 ', 1, 68.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E011 ', 3, 88.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E012 ', 4, 55.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E012 ', 1, 33.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E013 ', 2, 96.0);

INSERT INTO public.works\_on (essn, pnum, hours) VALUES ('E013 ', 9, 80.0);

--

-- TOC entry 3198 (class 2606 OID 24687)

-- Name: dependent dependent\_essn\_depname\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.dependent

ADD CONSTRAINT dependent\_essn\_depname\_pk PRIMARY KEY (essn, dependent\_name);

--

-- TOC entry 3186 (class 2606 OID 24640)

-- Name: department dept\_dname\_unique; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.department

ADD CONSTRAINT dept\_dname\_unique UNIQUE (dname);

--

-- TOC entry 3188 (class 2606 OID 24638)

-- Name: department dept\_dnumber\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.department

ADD CONSTRAINT dept\_dnumber\_pk PRIMARY KEY (dnumber);

--

-- TOC entry 3190 (class 2606 OID 24650)

-- Name: dept\_locations dnumber\_dlocation\_pf; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.dept\_locations

ADD CONSTRAINT dnumber\_dlocation\_pf PRIMARY KEY (dnum, dlocation);

--

-- TOC entry 3184 (class 2606 OID 24628)

-- Name: employee employee\_ssn\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.employee

ADD CONSTRAINT employee\_ssn\_pk PRIMARY KEY (ssn);

--

-- TOC entry 3192 (class 2606 OID 24662)

-- Name: project project\_pname\_unique; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.project

ADD CONSTRAINT project\_pname\_unique UNIQUE (pname);

--

-- TOC entry 3194 (class 2606 OID 24660)

-- Name: project project\_pnumber\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.project

ADD CONSTRAINT project\_pnumber\_pk PRIMARY KEY (pnumber);

--

-- TOC entry 3196 (class 2606 OID 24672)

-- Name: works\_on works\_essn\_pnum\_pk; Type: CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.works\_on

ADD CONSTRAINT works\_essn\_pnum\_pk PRIMARY KEY (essn, pnum);

--

-- TOC entry 3205 (class 2606 OID 24688)

-- Name: dependent dependent\_essn\_fk; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.dependent

ADD CONSTRAINT dependent\_essn\_fk FOREIGN KEY (essn) REFERENCES public.employee(ssn);

--

-- TOC entry 3200 (class 2606 OID 24641)

-- Name: department dept\_mgrssn\_fk; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.department

ADD CONSTRAINT dept\_mgrssn\_fk FOREIGN KEY (mgrssn) REFERENCES public.employee(ssn) ON DELETE CASCADE;

--

-- TOC entry 3201 (class 2606 OID 24651)

-- Name: dept\_locations dloc\_dnum\_fk; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.dept\_locations

ADD CONSTRAINT dloc\_dnum\_fk FOREIGN KEY (dnum) REFERENCES public.department(dnumber);

--

-- TOC entry 3199 (class 2606 OID 24629)

-- Name: employee employee\_superssn\_fk; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.employee

ADD CONSTRAINT employee\_superssn\_fk FOREIGN KEY (superssn) REFERENCES public.employee(ssn) ON DELETE CASCADE;

--

-- TOC entry 3202 (class 2606 OID 24663)

-- Name: project project\_dnum\_fk; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.project

ADD CONSTRAINT project\_dnum\_fk FOREIGN KEY (dnum) REFERENCES public.department(dnumber) ON DELETE CASCADE;

--

-- TOC entry 3203 (class 2606 OID 24673)

-- Name: works\_on works\_essn\_fk; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.works\_on

ADD CONSTRAINT works\_essn\_fk FOREIGN KEY (essn) REFERENCES public.employee(ssn) ON DELETE CASCADE;

--

-- TOC entry 3204 (class 2606 OID 24678)

-- Name: works\_on works\_pnum\_fk; Type: FK CONSTRAINT; Schema: public; Owner: postgres

--

ALTER TABLE ONLY public.works\_on

ADD CONSTRAINT works\_pnum\_fk FOREIGN KEY (pnum) REFERENCES public.project(pnumber) ON DELETE CASCADE;

--

-- TOC entry 3358 (class 0 OID 0)

-- Dependencies: 3

-- Name: SCHEMA public; Type: ACL; Schema: -; Owner: postgres

--

GRANT ALL ON SCHEMA public TO jampirojam;

-- Completed on 2022-06-22 09:34:55

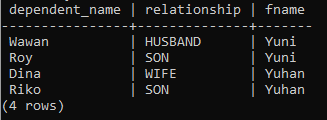
--

-- PostgreSQL database dump complete

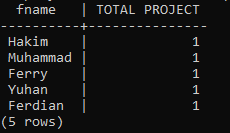
--

C. Jawaban Requirement 2

SELECT d.dependent\_name, d.relationship, fname FROM dependent d JOIN employee e ON e.ssn = d.essn WHERE e.fname LIKE 'y%' OR e.fname LIKE 'Y%';



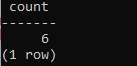
SELECT e.fname, w.pnum AS "TOTAL PROJECT" FROM works\_on w JOIN employee e ON e.ssn = w.essn WHERE w.pnum = 1;



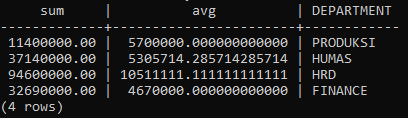
SELECT COUNT(ssn) FROM employee WHERE salary > 3500000;



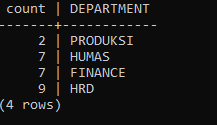
SELECT COUNT(pnumber) FROM project WHERE pnum = 2;



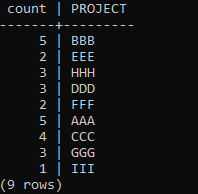
SELECT SUM(e.salary), AVG(e.salary), d.dname AS "DEPARTMENT" FROM department d JOIN employee e ON d.dnumber = e.dnum GROUP BY d.dname;



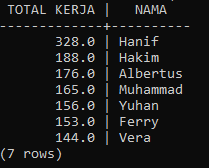
SELECT COUNT(e.ssn), d.dname AS "DEPARTMENT" FROM department d JOIN employee e ON d.dnumber = e.dnum GROUP BY d.dname ORDER BY COUNT(e.ssn) ASC;



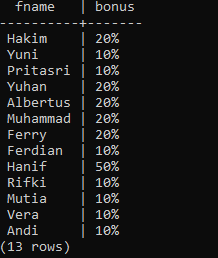
SELECT COUNT(hours), p.pname AS "PROJECT" FROM works\_on w JOIN project p ON p.pnumber = w.pnum GROUP BY p.pname;



SELECT SUM(w.hours) AS "TOTAL KERJA", e.fname AS "NAMA" FROM works\_on w JOIN employee e ON e.ssn = w.essn GROUP BY e.ssn HAVING SUM(w.hours) > 140 ORDER BY SUM(w.hours) DESC;



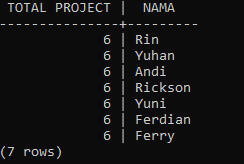
SELECT e.fname, CASE WHEN SUM(w.hours) >= 200 THEN '50%' WHEN SUM(w.hours) >= 150 AND SUM(W.HOURS) < 200 THEN '20%' ELSE '10%' END BONUS FROM works\_on w JOIN employee e ON w.essn = e.ssn GROUP BY w.essn, e.fname;



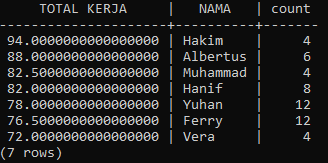
SELECT COUNT(p.pnumber) AS "TOTAL PROJECT", e.fname AS "NAMA" FROM project p JOIN employee e ON e.dnum = p.dnum GROUP BY e.ssn ORDER BY COUNT(p.pnumber) DESC;



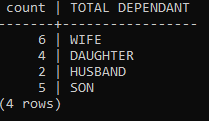
SELECT COUNT(p.pnumber) AS "TOTAL PROJECT", e.fname AS "NAMA" FROM project p JOIN employee e ON e.dnum = p.dnum GROUP BY e.ssn HAVING COUNT(p.pnumber) > 4 ORDER BY COUNT(p.pnumber) DESC;



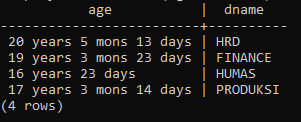
SELECT AVG(w.hours) AS "TOTAL KERJA", e.fname AS "NAMA", COUNT(p.pnumber) FROM works\_on w JOIN employee e ON e.ssn = w.essn JOIN project p ON e.dnum = p.dnum GROUP BY e.ssn HAVING AVG(w.hours) > 70 AND COUNT(p.pnumber) > 2 ORDER BY AVG(w.hours) DESC;



SELECT COUNT(relationship), relationship AS "TOTAL DEPENDANT" FROM dependent GROUP BY relationship;



SELECT AGE(mgrstartdate), dname FROM department;



SELECT p.plocation, COUNT(p.plocation) FROM project p JOIN department d ON p.dnum = d.dnumber GROUP BY p.plocation HAVING COUNT(p.plocation) >= 2;

