## Nama : Adam Ghufron

## No. Peserta : JVSB001ONL001

## Materi : MySQL

## GUI : Adminer (Custom)

# -- Database PT Melodi Indah

* Inisialisasi

SET NAMES utf8;

SET time\_zone = '+00:00';

SET foreign\_key\_checks = 0;

SET sql\_mode = 'NO\_AUTO\_VALUE\_ON\_ZERO';

SET NAMES utf8mb4;

* Create Database

DROP DATABASE IF EXISTS `db\_melodi\_indah`;

CREATE DATABASE `db\_melodi\_indah` /\*!40100 DEFAULT CHARACTER SET utf8mb4 \*/;

USE `db\_melodi\_indah`;

* Create Table instrument\_musisi

DROP VIEW IF EXISTS `instrumen\_musisi`;

CREATE TABLE `instrumen\_musisi` (`nama` varchar(64), `alamat` varchar(64), `nama\_instrumen` varchar(32), `kunci\_musik` varchar(8));

* Create Table pengarang\_album

DROP VIEW IF EXISTS `pengarang\_album`;

CREATE TABLE `pengarang\_album` (`judul` varchar(64), `pengarang` varchar(64), `nama\_album` varchar(32), `tgl\_copyright` date, `format` enum('cd','mc'), `id\_album` int(11));

* Create Table tb\_album

DROP TABLE IF EXISTS `tb\_album`;

CREATE TABLE `tb\_album` (

`id\_album` int(11) NOT NULL AUTO\_INCREMENT,

`nama\_album` varchar(32) NOT NULL,

`tgl\_copyright` date NOT NULL,

`format` enum('cd','mc') NOT NULL,

`ssn` int(11) NOT NULL,

PRIMARY KEY (`id\_album`),

KEY `ssn` (`ssn`),

CONSTRAINT `tb\_album\_ibfk\_1` FOREIGN KEY (`ssn`) REFERENCES `tb\_musisi` (`ssn`) ON DELETE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_album

TRUNCATE `tb\_album`;

INSERT INTO `tb\_album` (`id\_album`, `nama\_album`, `tgl\_copyright`, `format`, `ssn`) VALUES

(1, 'Black Love', '2021-07-11', 'cd', 4),

(2, 'Sekai', '2022-04-07', 'mc', 2),

(3, 'Dark Knive', '2019-09-10', 'mc', 2),

(4, 'Replay', '2018-10-14', 'cd', 4),

(5, 'Closer', '2020-06-02', 'mc', 1);

* Create Table tb\_combine\_musik

DROP TABLE IF EXISTS `tb\_combine\_musik`;

CREATE TABLE `tb\_combine\_musik` (

`id\_combine` int(11) NOT NULL AUTO\_INCREMENT,

`ssn` int(11) NOT NULL,

`id\_instrumen` int(11) NOT NULL,

PRIMARY KEY (`id\_combine`),

KEY `ssn` (`ssn`),

KEY `id\_instrumen` (`id\_instrumen`),

CONSTRAINT `tb\_combine\_musik\_ibfk\_1` FOREIGN KEY (`ssn`) REFERENCES `tb\_musisi` (`ssn`) ON DELETE NO ACTION,

CONSTRAINT `tb\_combine\_musik\_ibfk\_2` FOREIGN KEY (`id\_instrumen`) REFERENCES `tb\_instrumen` (`id\_instrumen`) ON DELETE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=12 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_combine\_musik

TRUNCATE `tb\_combine\_musik`;

INSERT INTO `tb\_combine\_musik` (`id\_combine`, `ssn`, `id\_instrumen`) VALUES

(1, 1, 1),

(2, 1, 3),

(3, 1, 5),

(4, 2, 2),

(5, 2, 3),

(6, 3, 6),

(7, 3, 5),

(8, 3, 3),

(9, 4, 4),

(10, 4, 5),

(11, 4, 8);

* Create Table tb\_instrumen

DROP TABLE IF EXISTS `tb\_instrumen`;

CREATE TABLE `tb\_instrumen` (

`id\_instrumen` int(11) NOT NULL AUTO\_INCREMENT,

`nama` varchar(32) NOT NULL,

`kunci\_musik` varchar(8) NOT NULL,

PRIMARY KEY (`id\_instrumen`)

) ENGINE=InnoDB AUTO\_INCREMENT=11 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_instrumen

TRUNCATE `tb\_instrumen`;

INSERT INTO `tb\_instrumen` (`id\_instrumen`, `nama`, `kunci\_musik`) VALUES

(1, 'piano', 'b'),

(2, 'piano', 'c'),

(3, 'piano', 'd'),

(4, 'biola', 'f'),

(5, 'biola', 'g'),

(6, 'seruling', 'c'),

(7, 'seruling', 'g'),

(8, 'gendang', 'c#'),

(9, 'gitar', 'd'),

(10, 'gitar', 'g');

* Create Table tb\_lagu

DROP TABLE IF EXISTS `tb\_lagu`;

CREATE TABLE `tb\_lagu` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`judul` varchar(64) NOT NULL,

`pengarang` varchar(64) NOT NULL,

`id\_album` int(11) NOT NULL,

PRIMARY KEY (`id`),

KEY `id\_album` (`id\_album`),

CONSTRAINT `tb\_lagu\_ibfk\_1` FOREIGN KEY (`id\_album`) REFERENCES `tb\_album` (`id\_album`) ON DELETE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_lagu

TRUNCATE `tb\_lagu`;

INSERT INTO `tb\_lagu` (`id`, `judul`, `pengarang`, `id\_album`) VALUES

(1, 'More than Love', 'Adam Smith', 3),

(2, 'One Step Closer', 'Adam Smith', 3),

(3, 'Never', 'Karl Max', 1),

(4, 'Behinded', 'Scooper Gaban', 2),

(5, 'Late', 'Kamarun', 2);

* Create Table tb\_musisi

DROP TABLE IF EXISTS `tb\_musisi`;

CREATE TABLE `tb\_musisi` (

`ssn` int(11) NOT NULL AUTO\_INCREMENT,

`nama` varchar(64) NOT NULL,

`alamat` varchar(64) NOT NULL,

`nomor\_telepon` varchar(64) NOT NULL,

PRIMARY KEY (`ssn`)

) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_musisi

TRUNCATE `tb\_musisi`;

INSERT INTO `tb\_musisi` (`ssn`, `nama`, `alamat`, `nomor\_telepon`) VALUES

(1, 'Adam Smith', 'New York', '14045'),

(2, 'Karl Max', 'Canberra', '14022'),

(3, 'Scooper Gaban', 'Tokyo', '14014'),

(4, 'Kamarun', 'New Delhi', '14041');

* Create View instrumen\_musisi

DROP TABLE IF EXISTS `instrumen\_musisi`;

CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `instrumen\_musisi` AS select `tm`.`nama` AS `nama`,`tm`.`alamat` AS `alamat`,`ti`.`nama` AS `nama\_instrumen`,`ti`.`kunci\_musik` AS `kunci\_musik` from ((`tb\_combine\_musik` `tcm` join `tb\_instrumen` `ti` on(`ti`.`id\_instrumen` = `tcm`.`id\_instrumen`)) join `tb\_musisi` `tm` on(`tm`.`ssn` = `tcm`.`ssn`));

* Create View pengarang\_album

DROP TABLE IF EXISTS `pengarang\_album`;

CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `pengarang\_album` AS select `tl`.`judul` AS `judul`,`tl`.`pengarang` AS `pengarang`,`ta`.`nama\_album` AS `nama\_album`,`ta`.`tgl\_copyright` AS `tgl\_copyright`,`ta`.`format` AS `format`,`ta`.`id\_album` AS `id\_album` from (`tb\_lagu` `tl` join `tb\_album` `ta` on(`ta`.`id\_album` = `tl`.`id\_album`));

-- Database Company

* Inisialisasi

SET NAMES utf8;

SET time\_zone = '+00:00';

SET foreign\_key\_checks = 0;

SET sql\_mode = 'NO\_AUTO\_VALUE\_ON\_ZERO';

SET NAMES utf8mb4;

* Create Database

DROP DATABASE IF EXISTS `db\_company`;

CREATE DATABASE `db\_company` /\*!40100 DEFAULT CHARACTER SET utf8mb4 \*/;

USE `db\_company`;

* Create Table dept\_location

DROP TABLE IF EXISTS `dept\_location`;

CREATE TABLE `dept\_location` (

`id\_dept\_location` int(11) NOT NULL AUTO\_INCREMENT,

`dept\_no` int(11) NOT NULL,

`department\_location` varchar(32) NOT NULL,

PRIMARY KEY (`id\_dept\_location`),

KEY `dept\_no` (`dept\_no`),

CONSTRAINT `dept\_location\_ibfk\_1` FOREIGN KEY (`dept\_no`) REFERENCES `tb\_department` (`id\_dept`)

) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8mb4;

* Insert Data dept\_location

TRUNCATE `dept\_location`;

INSERT INTO `dept\_location` (`id\_dept\_location`, `dept\_no`, `department\_location`) VALUES

(1, 1, '1st floor'),

(2, 2, '2nd floor'),

(3, 3, '3nd floor'),

(4, 4, '4nd floor'),

(5, 5, '5th floor');

* Create Table tb\_department

DROP TABLE IF EXISTS `tb\_department`;

CREATE TABLE `tb\_department` (

`id\_dept` int(11) NOT NULL AUTO\_INCREMENT,

`id\_ssn` int(11) NOT NULL,

`department\_name` varchar(64) NOT NULL,

`manager\_start\_date` date NOT NULL,

PRIMARY KEY (`id\_dept`),

KEY `id\_ssn` (`id\_ssn`),

CONSTRAINT `tb\_department\_ibfk\_2` FOREIGN KEY (`id\_ssn`) REFERENCES `tb\_employee` (`id\_ssn`) ON DELETE NO ACTION ON UPDATE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=9 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_department

TRUNCATE `tb\_department`;

INSERT INTO `tb\_department` (`id\_dept`, `id\_ssn`, `department\_name`, `manager\_start\_date`) VALUES

(1, 3, 'Management', '2014-06-26'),

(2, 4, 'IT', '2005-09-12'),

(3, 2, 'Finance', '2015-10-27'),

(4, 1, 'Accounting', '2020-06-04'),

(5, 5, 'HR', '2012-04-15');

* Create Table tb\_dependent

DROP TABLE IF EXISTS `tb\_dependent`;

CREATE TABLE `tb\_dependent` (

`id\_dependent` int(11) NOT NULL AUTO\_INCREMENT,

`id\_ssn` int(11) NOT NULL,

`dependent\_name` varchar(64) NOT NULL,

`sex` enum('male','female') NOT NULL,

`bdate` date NOT NULL,

`relationship` enum('staff','lead','head') NOT NULL,

PRIMARY KEY (`id\_dependent`),

KEY `id\_ssn` (`id\_ssn`),

CONSTRAINT `tb\_dependent\_ibfk\_1` FOREIGN KEY (`id\_ssn`) REFERENCES `tb\_employee` (`id\_ssn`) ON DELETE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=8 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_dependent

TRUNCATE `tb\_dependent`;

INSERT INTO `tb\_dependent` (`id\_dependent`, `id\_ssn`, `dependent\_name`, `sex`, `bdate`, `relationship`) VALUES

(1, 2, 'naruto', 'male', '1998-12-12', 'head'),

(2, 3, 'sasuke', 'male', '1998-05-08', 'head'),

(3, 4, 'tsunade', 'female', '1981-04-05', 'lead'),

(4, 2, 'jiraiya', 'male', '1980-01-07', 'staff'),

(5, 1, 'conan', 'female', '1996-07-05', 'lead'),

(6, 3, 'neji', 'male', '1998-10-02', 'staff'),

(7, 4, 'tenten', 'female', '1999-12-06', 'head');

* Create Table tb\_employee

DROP TABLE IF EXISTS `tb\_employee`;

CREATE TABLE `tb\_employee` (

`id\_ssn` int(11) NOT NULL AUTO\_INCREMENT,

`fname` varchar(64) NOT NULL,

`mname` varchar(64) DEFAULT NULL,

`lname` varchar(64) NOT NULL,

`bdate` date NOT NULL,

`address` varchar(32) NOT NULL,

`sex` enum('male','female') NOT NULL,

`salary` float NOT NULL,

`id\_dept` int(11) NOT NULL,

PRIMARY KEY (`id\_ssn`),

KEY `id\_dept` (`id\_dept`),

CONSTRAINT `tb\_employee\_ibfk\_1` FOREIGN KEY (`id\_dept`) REFERENCES `tb\_department` (`id\_dept`)

) ENGINE=InnoDB AUTO\_INCREMENT=9 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_employee

TRUNCATE `tb\_employee`;

INSERT INTO `tb\_employee` (`id\_ssn`, `fname`, `mname`, `lname`, `bdate`, `address`, `sex`, `salary`, `id\_dept`) VALUES

(1, 'adam', 'damaki', 'ghufron', '1998-06-04', 'jakarta', 'male', 25000000, 1),

(2, 'monkey', 'd', 'luffy', '1981-08-24', 'east blue', 'male', 22000000, 2),

(3, 'monkey', 'd', 'garp', '1879-11-22', 'hq navy', 'male', 500000, 4),

(4, 'nico', '', 'robin', '1990-04-12', 'ohara', 'female', 15000000, 3),

(5, 'nami', '', 'chan', '1991-01-20', 'fuusha', 'female', 23000000, 1),

(6, 'dragon', 'd', 'wind', '1977-09-25', 'east blue', 'male', 5000000, 4),

(7, 'rudes', 'neferi', 'caesar', '2000-05-13', 'isekai', 'male', 12000000, 5),

(8, 'kratos', '', 'war', '1906-06-16', 'yunani', 'male', 25000000, 4);

* Create Table tb\_project

DROP TABLE IF EXISTS `tb\_project`;

CREATE TABLE `tb\_project` (

`id\_project` int(11) NOT NULL AUTO\_INCREMENT,

`id\_dept` int(11) NOT NULL,

`project\_name` varchar(64) NOT NULL,

`project\_location` varchar(32) NOT NULL,

PRIMARY KEY (`id\_project`),

KEY `id\_dept` (`id\_dept`),

CONSTRAINT `tb\_project\_ibfk\_1` FOREIGN KEY (`id\_dept`) REFERENCES `tb\_department` (`id\_dept`) ON DELETE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=7 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_project

TRUNCATE `tb\_project`;

INSERT INTO `tb\_project` (`id\_project`, `id\_dept`, `project\_name`, `project\_location`) VALUES

(1, 1, 'mencari berkah', 'bandung'),

(2, 2, 'ennichisai', 'jakarta'),

(3, 2, 'afaid', 'jakarta'),

(4, 2, 'revolusi mental', 'solo'),

(5, 5, 'bootcamp', 'jakarta'),

(6, 4, 'ojt', 'banten');

* Create Table tb\_works\_on

DROP TABLE IF EXISTS `tb\_works\_on`;

CREATE TABLE `tb\_works\_on` (

`id\_works` int(11) NOT NULL AUTO\_INCREMENT,

`id\_ssn` int(11) NOT NULL,

`id\_project` int(11) NOT NULL,

`hours` int(16) NOT NULL,

PRIMARY KEY (`id\_works`),

KEY `id\_ssn` (`id\_ssn`),

KEY `id\_project` (`id\_project`),

CONSTRAINT `tb\_works\_on\_ibfk\_1` FOREIGN KEY (`id\_ssn`) REFERENCES `tb\_employee` (`id\_ssn`),

CONSTRAINT `tb\_works\_on\_ibfk\_2` FOREIGN KEY (`id\_project`) REFERENCES `tb\_project` (`id\_project`)

) ENGINE=InnoDB AUTO\_INCREMENT=15 DEFAULT CHARSET=utf8mb4;

* Insert Data tb\_works\_on

TRUNCATE `tb\_works\_on`;

INSERT INTO `tb\_works\_on` (`id\_works`, `id\_ssn`, `id\_project`, `hours`) VALUES

(1, 1, 2, 40),

(2, 3, 3, 30),

(3, 3, 4, 15),

(4, 5, 2, 50),

(5, 5, 5, 100),

(6, 4, 1, 50),

(7, 4, 2, 100),

(8, 5, 3, 10),

(9, 6, 1, 170),

(10, 8, 2, 100),

(11, 8, 1, 35),

(12, 8, 4, 35),

(13, 2, 1, 50),

(14, 2, 2, 60);

* DB Company Diagram

