**Nama : Ayub Yoga Pratama**

**No. Peserta : JVSB001ONL016**

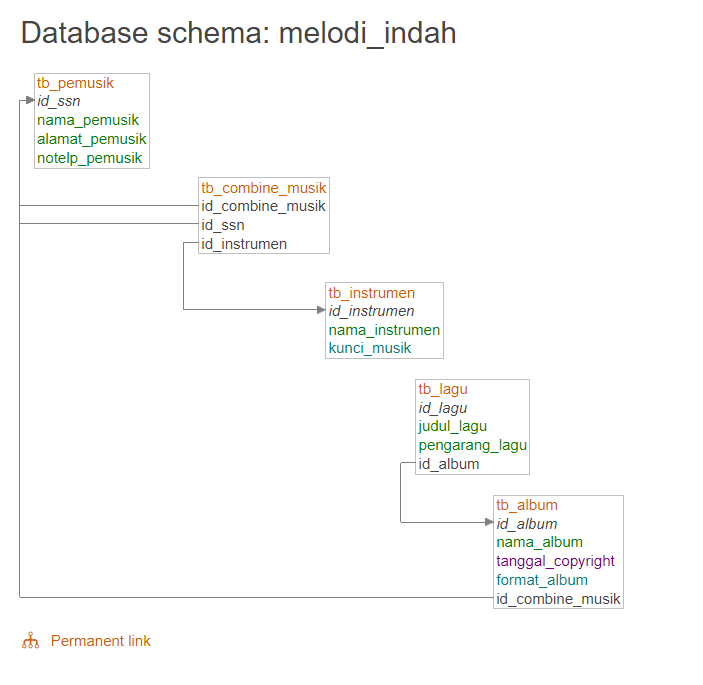
Requirement 1

Membuat Database PT. Melodi Indah

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| -- Adminer 4.8.1 MySQL 5.5.5-10.4.24-MariaDB dump  SET NAMES utf8;  SET time\_zone = '+00:00';  SET foreign\_key\_checks = 0;  SET sql\_mode = 'NO\_AUTO\_VALUE\_ON\_ZERO';  DROP VIEW IF EXISTS `all\_data`;  CREATE TABLE `all\_data` (`id\_ssn` int(2) unsigned zerofill, `nama\_pemusik` varchar(50), `alamat\_pemusik` text, `notelp\_pemusik` varchar(13), `nama\_album` varchar(20), `tanggal\_copyright` date, `format\_album` enum('CD','MC'), `judul\_lagu` varchar(30), `pengarang\_lagu` varchar(20), `nama\_instrumen` varchar(20), `kunci\_musik` enum('C','G','B','C#','G#','B#'));  SET NAMES utf8mb4;  DROP TABLE IF EXISTS `tb\_album`;  CREATE TABLE `tb\_album` (  `id\_album` int(5) NOT NULL AUTO\_INCREMENT,  `nama\_album` varchar(20) NOT NULL,  `tanggal\_copyright` date NOT NULL,  `format\_album` enum('CD','MC') NOT NULL,  `id\_combine\_musik` int(2) unsigned zerofill NOT NULL,  PRIMARY KEY (`id\_album`),  KEY `id\_combine\_musik` (`id\_combine\_musik`),  CONSTRAINT `tb\_album\_ibfk\_1` FOREIGN KEY (`id\_combine\_musik`) REFERENCES `tb\_pemusik` (`id\_ssn`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_album` (`id\_album`, `nama\_album`, `tanggal\_copyright`, `format\_album`, `id\_combine\_musik`) VALUES  (6, 'Albumku', '2022-05-03', 'CD', 03),  (7, 'Heaven', '2022-12-31', 'MC', 04),  (8, 'Tujuh Belas', '2022-11-12', 'CD', 05),  (9, 'Juicy', '2022-03-04', 'CD', 03);  DROP TABLE IF EXISTS `tb\_combine\_musik`;  CREATE TABLE `tb\_combine\_musik` (  `id\_combine\_musik` int(2) unsigned zerofill NOT NULL,  `id\_ssn` int(2) unsigned zerofill NOT NULL,  `id\_instrumen` int(5) NOT NULL,  KEY `id\_ssn` (`id\_combine\_musik`),  KEY `id\_ssn\_2` (`id\_ssn`),  KEY `id\_instrumen` (`id\_instrumen`),  CONSTRAINT `tb\_combine\_musik\_ibfk\_1` FOREIGN KEY (`id\_combine\_musik`) REFERENCES `tb\_pemusik` (`id\_ssn`),  CONSTRAINT `tb\_combine\_musik\_ibfk\_2` FOREIGN KEY (`id\_ssn`) REFERENCES `tb\_pemusik` (`id\_ssn`),  CONSTRAINT `tb\_combine\_musik\_ibfk\_3` FOREIGN KEY (`id\_instrumen`) REFERENCES `tb\_instrumen` (`id\_instrumen`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_combine\_musik` (`id\_combine\_musik`, `id\_ssn`, `id\_instrumen`) VALUES  (03, 03, 1),  (04, 04, 2),  (05, 05, 1);  DROP TABLE IF EXISTS `tb\_instrumen`;  CREATE TABLE `tb\_instrumen` (  `id\_instrumen` int(5) NOT NULL AUTO\_INCREMENT,  `nama\_instrumen` varchar(20) NOT NULL,  `kunci\_musik` enum('C','G','B','C#','G#','B#') NOT NULL,  PRIMARY KEY (`id\_instrumen`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_instrumen` (`id\_instrumen`, `nama\_instrumen`, `kunci\_musik`) VALUES  (1, 'Gitar', 'C'),  (2, 'Piano', 'C#'),  (3, 'Biola', 'B#'),  (4, 'Saxophone', 'G'),  (5, 'Flute', 'B');  DROP TABLE IF EXISTS `tb\_lagu`;  CREATE TABLE `tb\_lagu` (  `id\_lagu` int(11) NOT NULL AUTO\_INCREMENT,  `judul\_lagu` varchar(30) NOT NULL,  `pengarang\_lagu` varchar(20) NOT NULL,  `id\_album` int(5) NOT NULL,  PRIMARY KEY (`id\_lagu`),  KEY `id\_album` (`id\_album`),  CONSTRAINT `tb\_lagu\_ibfk\_2` FOREIGN KEY (`id\_album`) REFERENCES `tb\_album` (`id\_album`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_lagu` (`id\_lagu`, `judul\_lagu`, `pengarang\_lagu`, `id\_album`) VALUES  (1, 'Merasa Indah', 'Laleilmanino', 6),  (2, 'You Are The Reason', 'Steven Seagal', 7),  (3, 'Tampar', 'Han', 9),  (4, 'Hati-hati di Jalan', 'Tulus dkk', 8),  (6, 'Lantas', 'Juicy dkk', 9),  (7, 'Tujuh Belas', 'Tulus dkk', 8),  (8, 'Diri', 'Tulus dkk', 8),  (9, 'Where Are You Now', 'Calum dkk', 7);  DROP TABLE IF EXISTS `tb\_pemusik`;  CREATE TABLE `tb\_pemusik` (  `id\_ssn` int(2) unsigned zerofill NOT NULL AUTO\_INCREMENT,  `nama\_pemusik` varchar(50) NOT NULL,  `alamat\_pemusik` text NOT NULL,  `notelp\_pemusik` varchar(13) NOT NULL,  PRIMARY KEY (`id\_ssn`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_pemusik` (`id\_ssn`, `nama\_pemusik`, `alamat\_pemusik`, `notelp\_pemusik`) VALUES  (03, 'Tiara Andini', 'Boulevard 1 Jakarta Barat', '08112310504'),  (04, 'Calum Scott', 'Boulevard 1 Jakarta Barat', '081222877312'),  (05, 'Tulus', 'Residence @ Golf Island Pantai Indah Kapuk', '081222877443'),  (06, 'Juicy Luicy', 'Sunter Agung Jakarta Utara', '08112345667');  DROP TABLE IF EXISTS `all\_data`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `all\_data` AS select `tpe`.`id\_ssn` AS `id\_ssn`,`tpe`.`nama\_pemusik` AS `nama\_pemusik`,`tpe`.`alamat\_pemusik` AS `alamat\_pemusik`,`tpe`.`notelp\_pemusik` AS `notelp\_pemusik`,`ta`.`nama\_album` AS `nama\_album`,`ta`.`tanggal\_copyright` AS `tanggal\_copyright`,`ta`.`format\_album` AS `format\_album`,`tl`.`judul\_lagu` AS `judul\_lagu`,`tl`.`pengarang\_lagu` AS `pengarang\_lagu`,`ti`.`nama\_instrumen` AS `nama\_instrumen`,`ti`.`kunci\_musik` AS `kunci\_musik` from (`tb\_pemusik` `tpe` join (((`tb\_combine\_musik` `tc` join `tb\_album` `ta` on(`tc`.`id\_ssn` = `ta`.`id\_combine\_musik`)) join `tb\_lagu` `tl` on(`ta`.`id\_album` = `tl`.`id\_album`)) join `tb\_instrumen` `ti` on(`tc`.`id\_instrumen` = `ti`.`id\_instrumen`)));  -- 2022-06-21 21:02:27 |

Database yang dibuat terbagi dalam beberapa tabel, diantaranya :

1. tb\_pemusik untuk memasukkan id\_ssn, nama pemusik, alamat pemusik, dan notelp pemusik
2. tb\_lagu untuk memasukkan lagu beserta di album mana lagu tersebut diletakkan
3. tb\_instrumen untuk memasukkan jenis instrumen
4. tb\_album untuk memasukkan detail album
5. combine\_musik, untuk menggabungkan id\_ssn dan id\_instrumen

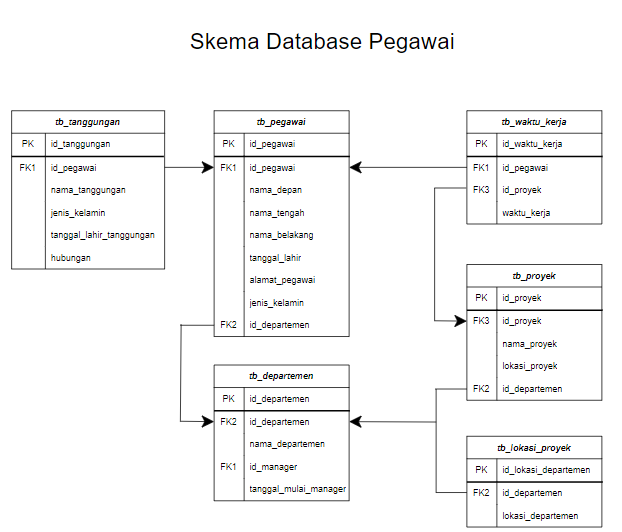


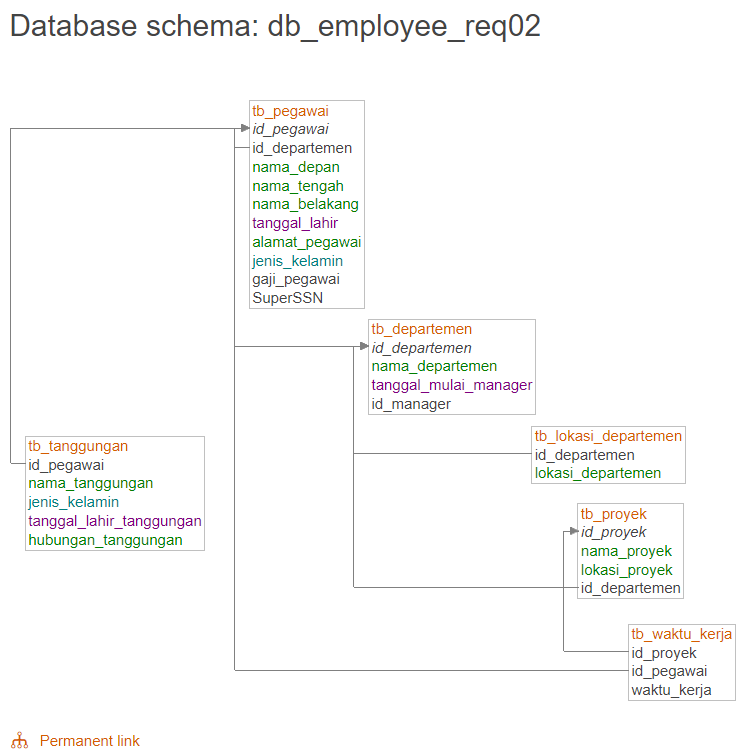
Requirement 2

DATABASE COMPANY

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| -- Adminer 4.8.1 MySQL 5.5.5-10.4.24-MariaDB dump  SET NAMES utf8;  SET time\_zone = '+00:00';  SET foreign\_key\_checks = 0;  SET sql\_mode = 'NO\_AUTO\_VALUE\_ON\_ZERO';  DROP VIEW IF EXISTS `req\_2\_soal\_a`;  CREATE TABLE `req\_2\_soal\_a` (`nama\_tanggungan` varchar(20), `hubungan\_tanggungan` varchar(20));  DROP VIEW IF EXISTS `req\_2\_soal\_b`;  CREATE TABLE `req\_2\_soal\_b` (`id\_proyek` int(11), `total\_proyek\_1` bigint(21));  DROP VIEW IF EXISTS `req\_2\_soal\_c`;  CREATE TABLE `req\_2\_soal\_c` (`gaji\_pegawai\_diatas\_3juta500` bigint(21));  DROP VIEW IF EXISTS `req\_2\_soal\_d`;  CREATE TABLE `req\_2\_soal\_d` (`total\_proyek\_departemen\_2` bigint(21));  DROP VIEW IF EXISTS `req\_2\_soal\_e`;  CREATE TABLE `req\_2\_soal\_e` (`nama\_departemen` varchar(20), `rata\_rata\_gaji` double);  DROP VIEW IF EXISTS `req\_2\_soal\_f`;  CREATE TABLE `req\_2\_soal\_f` (`nama\_departemen` varchar(20), `banyak\_pegawai` bigint(21));  DROP VIEW IF EXISTS `req\_2\_soal\_g`;  CREATE TABLE `req\_2\_soal\_g` (`nama\_proyek` varchar(20), `total\_jam\_kerja\_perminggu` decimal(32,0));  DROP VIEW IF EXISTS `req\_2\_soal\_h`;  CREATE TABLE `req\_2\_soal\_h` (`nama\_pegawai` varchar(20), `total\_waktu\_kerja` decimal(32,0));  DROP VIEW IF EXISTS `req\_2\_soal\_i`;  CREATE TABLE `req\_2\_soal\_i` (`nama\_pegawai` varchar(20), `total\_waktu\_kerja` decimal(32,0), `bonus\_kinerja` varchar(9));  DROP VIEW IF EXISTS `req\_2\_soal\_j`;  CREATE TABLE `req\_2\_soal\_j` (`nama\_pegawai` varchar(20), `jumlah\_proyek` bigint(21));  DROP VIEW IF EXISTS `req\_2\_soal\_k`;  CREATE TABLE `req\_2\_soal\_k` (`nama\_pegawai` varchar(20), `jumlah\_proyek` bigint(21));  DROP VIEW IF EXISTS `req\_2\_soal\_l`;  CREATE TABLE `req\_2\_soal\_l` (`nama\_pegawai` varchar(20), `rata\_rata\_waktu\_kerja` decimal(14,4), `jumlah\_proyek` bigint(21));  DROP VIEW IF EXISTS `req\_2\_soal\_m`;  CREATE TABLE `req\_2\_soal\_m` (`hubungan\_tanggungan` varchar(20), `banyaknya\_tanggungan` bigint(21));  SET NAMES utf8mb4;  DROP TABLE IF EXISTS `tb\_departemen`;  CREATE TABLE `tb\_departemen` (  `id\_departemen` int(11) NOT NULL AUTO\_INCREMENT,  `nama\_departemen` varchar(20) NOT NULL,  `tanggal\_mulai\_manager` date NOT NULL,  `id\_manager` int(11) NOT NULL,  PRIMARY KEY (`id\_departemen`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_departemen` (`id\_departemen`, `nama\_departemen`, `tanggal\_mulai\_manager`, `id\_manager`) VALUES  (1, 'Keuangan', '2020-01-01', 101),  (2, 'Marketing', '2020-02-01', 201),  (3, 'HR', '2021-01-01', 301),  (4, 'Pelayanan Publik', '2020-10-10', 401),  (5, 'Keperawatan', '2020-12-12', 501),  (6, 'Kedokteran', '2021-11-11', 601);  DROP TABLE IF EXISTS `tb\_lokasi\_departemen`;  CREATE TABLE `tb\_lokasi\_departemen` (  `id\_departemen` int(11) NOT NULL,  `lokasi\_departemen` varchar(20) NOT NULL,  KEY `id\_departemen` (`id\_departemen`),  CONSTRAINT `tb\_lokasi\_departemen\_ibfk\_1` FOREIGN KEY (`id\_departemen`) REFERENCES `tb\_departemen` (`id\_departemen`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_lokasi\_departemen` (`id\_departemen`, `lokasi\_departemen`) VALUES  (1, 'Jakarta Utara'),  (2, 'Bandung'),  (3, 'Singapore'),  (4, 'Head Office'),  (5, 'Jakarta Utara'),  (6, 'Head Office');  DROP TABLE IF EXISTS `tb\_pegawai`;  CREATE TABLE `tb\_pegawai` (  `id\_pegawai` int(11) NOT NULL AUTO\_INCREMENT,  `id\_departemen` int(11) NOT NULL,  `nama\_depan` varchar(20) NOT NULL,  `nama\_tengah` varchar(20) NOT NULL,  `nama\_belakang` varchar(20) NOT NULL,  `tanggal\_lahir` date NOT NULL,  `alamat\_pegawai` text NOT NULL,  `jenis\_kelamin` enum('Laki-laki','Perempuan') NOT NULL,  `gaji\_pegawai` float NOT NULL,  `SuperSSN` int(11) NOT NULL,  PRIMARY KEY (`id\_pegawai`),  KEY `id\_departemen` (`id\_departemen`),  CONSTRAINT `tb\_pegawai\_ibfk\_1` FOREIGN KEY (`id\_departemen`) REFERENCES `tb\_departemen` (`id\_departemen`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_pegawai` (`id\_pegawai`, `id\_departemen`, `nama\_depan`, `nama\_tengah`, `nama\_belakang`, `tanggal\_lahir`, `alamat\_pegawai`, `jenis\_kelamin`, `gaji\_pegawai`, `SuperSSN`) VALUES  (101, 1, 'Johan', 'Budi', 'Sentosa', '1950-10-10', 'Sarijadi', 'Laki-laki', 15000000, 1),  (102, 1, 'Maman', 'Abdurrahman', 'Wijaya', '1978-08-07', 'Cihampelas', 'Laki-laki', 33000000, 1),  (201, 2, 'Greysia', 'Mina', 'Polii', '1970-07-07', 'Setra Duta', 'Perempuan', 14000000, 1),  (202, 2, 'Ahmad', 'Zubaeri', 'Levo', '1969-06-09', 'Cihampelas Bawah', 'Laki-laki', 2300000, 2),  (301, 3, 'Emelia', 'Carmela', 'Yuan', '1960-11-11', 'BSD', 'Perempuan', 16000000, 2),  (302, 3, 'Reyhan', 'Loseano', 'Wu', '1997-03-07', 'Sukasari', 'Laki-laki', 2200000, 3),  (401, 4, 'Iwan', 'Kurniawan', '', '1970-04-04', 'Sariwangi', 'Laki-laki', 13000000, 3),  (403, 4, 'Rina', 'Rasyid', 'Wijaya', '1997-07-07', 'Anjani', 'Perempuan', 5000000, 4),  (501, 5, 'Mawar', 'Anita', 'Kusuma', '1955-05-05', 'Citra Garden ', 'Perempuan', 10000000, 5),  (601, 6, 'Austin', 'Levinardo', 'Sutomo', '1977-07-07', 'Mega Residence', 'Laki-laki', 17000000, 6);  DROP TABLE IF EXISTS `tb\_proyek`;  CREATE TABLE `tb\_proyek` (  `id\_proyek` int(11) NOT NULL AUTO\_INCREMENT,  `nama\_proyek` varchar(20) NOT NULL,  `lokasi\_proyek` text NOT NULL,  `id\_departemen` int(11) NOT NULL,  PRIMARY KEY (`id\_proyek`),  KEY `id\_departemen` (`id\_departemen`),  CONSTRAINT `tb\_proyek\_ibfk\_1` FOREIGN KEY (`id\_departemen`) REFERENCES `tb\_departemen` (`id\_departemen`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_proyek` (`id\_proyek`, `nama\_proyek`, `lokasi\_proyek`, `id\_departemen`) VALUES  (1, 'Pengelolaan Keuangan', 'Jakarta Utara', 1),  (2, 'Digital Marketing', 'Head Office', 2),  (3, 'Pelatihan Skill Baru', 'Online', 3),  (4, 'Pelatihan Pelayanan ', 'Bandung', 4),  (5, 'Care Perawat', 'Tangerang', 5),  (6, 'Sertifikasi Kedokter', 'Singapore', 6),  (7, 'Pengolahan Ms. Word', 'Online', 2);  DROP TABLE IF EXISTS `tb\_tanggungan`;  CREATE TABLE `tb\_tanggungan` (  `id\_pegawai` int(11) NOT NULL,  `nama\_tanggungan` varchar(20) NOT NULL,  `jenis\_kelamin` enum('Laki-laki','Perempuan') NOT NULL,  `tanggal\_lahir\_tanggungan` date NOT NULL,  `hubungan\_tanggungan` varchar(20) NOT NULL,  KEY `id\_pegawai` (`id\_pegawai`),  CONSTRAINT `tb\_tanggungan\_ibfk\_1` FOREIGN KEY (`id\_pegawai`) REFERENCES `tb\_pegawai` (`id\_pegawai`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_tanggungan` (`id\_pegawai`, `nama\_tanggungan`, `jenis\_kelamin`, `tanggal\_lahir\_tanggungan`, `hubungan\_tanggungan`) VALUES  (101, 'Hendrik', 'Laki-laki', '1997-05-04', 'anak'),  (201, 'Jaka', 'Laki-laki', '1997-06-12', 'ayah'),  (302, 'Annissa', 'Perempuan', '1997-05-04', 'anak'),  (302, 'Ranny', 'Perempuan', '1997-06-12', 'Istri'),  (403, 'Ricky', 'Laki-laki', '1997-06-12', 'Suami'),  (401, 'Isna', 'Perempuan', '1997-06-12', 'Istri'),  (401, 'Michael', 'Laki-laki', '1997-06-12', 'Anak'),  (401, 'Galih', 'Laki-laki', '1997-06-12', 'Anak'),  (301, 'Abigail', 'Perempuan', '1997-06-12', 'Istri'),  (601, 'Meliana', 'Perempuan', '1997-06-12', 'Istri'),  (601, 'Richard', 'Laki-laki', '1997-05-04', 'Anak'),  (601, 'Jerome', 'Laki-laki', '1997-06-13', 'Anak');  DROP TABLE IF EXISTS `tb\_waktu\_kerja`;  CREATE TABLE `tb\_waktu\_kerja` (  `id\_proyek` int(11) NOT NULL,  `id\_pegawai` int(11) NOT NULL,  `waktu\_kerja` int(11) NOT NULL,  KEY `id\_proyek` (`id\_proyek`),  KEY `id\_pegawai` (`id\_pegawai`),  KEY `waktu\_kerja` (`waktu\_kerja`),  CONSTRAINT `tb\_waktu\_kerja\_ibfk\_1` FOREIGN KEY (`id\_proyek`) REFERENCES `tb\_proyek` (`id\_proyek`),  CONSTRAINT `tb\_waktu\_kerja\_ibfk\_2` FOREIGN KEY (`id\_pegawai`) REFERENCES `tb\_pegawai` (`id\_pegawai`)  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  INSERT INTO `tb\_waktu\_kerja` (`id\_proyek`, `id\_pegawai`, `waktu\_kerja`) VALUES  (1, 101, 150),  (2, 201, 130),  (3, 301, 250),  (4, 401, 160),  (1, 201, 100),  (1, 301, 210),  (1, 401, 160),  (2, 201, 10),  (2, 201, 30),  (2, 201, 40),  (2, 201, 14),  (2, 201, 50),  (7, 501, 10),  (7, 501, 20),  (7, 501, 30),  (7, 501, 20),  (6, 501, 20),  (4, 501, 30),  (5, 401, 20);  DROP TABLE IF EXISTS `req\_2\_soal\_a`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_a` AS select `tt`.`nama\_tanggungan` AS `nama\_tanggungan`,`tt`.`hubungan\_tanggungan` AS `hubungan\_tanggungan` from (`tb\_tanggungan` `tt` join `tb\_pegawai` `tpe` on(`tt`.`id\_pegawai` = `tpe`.`id\_pegawai`)) where `tpe`.`nama\_depan` like 'R%';  DROP TABLE IF EXISTS `req\_2\_soal\_b`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_b` AS select `twak`.`id\_proyek` AS `id\_proyek`,count(`twak`.`id\_proyek`) AS `total\_proyek\_1` from `tb\_waktu\_kerja` `twak` where `twak`.`id\_proyek` = 1;  DROP TABLE IF EXISTS `req\_2\_soal\_c`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_c` AS select count(`tpe`.`gaji\_pegawai`) AS `gaji\_pegawai\_diatas\_3juta500` from `tb\_pegawai` `tpe` where `tpe`.`gaji\_pegawai` > 3500000;  DROP TABLE IF EXISTS `req\_2\_soal\_d`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_d` AS select count(`tpr`.`id\_departemen`) AS `total\_proyek\_departemen\_2` from `tb\_proyek` `tpr` where `tpr`.`id\_departemen` = 2;  DROP TABLE IF EXISTS `req\_2\_soal\_e`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_e` AS select `td`.`nama\_departemen` AS `nama\_departemen`,avg(`tpe`.`gaji\_pegawai`) AS `rata\_rata\_gaji` from (`tb\_pegawai` `tpe` join `tb\_departemen` `td` on(`tpe`.`id\_departemen` = `td`.`id\_departemen`)) group by `td`.`id\_departemen`;  DROP TABLE IF EXISTS `req\_2\_soal\_f`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_f` AS select `td`.`nama\_departemen` AS `nama\_departemen`,count(`tpe`.`id\_pegawai`) AS `banyak\_pegawai` from (`tb\_pegawai` `tpe` join `tb\_departemen` `td` on(`tpe`.`id\_departemen` = `td`.`id\_departemen`)) group by `td`.`id\_departemen`;  DROP TABLE IF EXISTS `req\_2\_soal\_g`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_g` AS select `tpr`.`nama\_proyek` AS `nama\_proyek`,sum(`twak`.`waktu\_kerja`) AS `total\_jam\_kerja\_perminggu` from (`tb\_waktu\_kerja` `twak` join `tb\_proyek` `tpr` on(`tpr`.`id\_proyek` = `twak`.`id\_proyek`)) group by `twak`.`id\_proyek` order by sum(`twak`.`waktu\_kerja`) desc;  DROP TABLE IF EXISTS `req\_2\_soal\_h`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_h` AS select `tpe`.`nama\_depan` AS `nama\_pegawai`,sum(`twak`.`waktu\_kerja`) AS `total\_waktu\_kerja` from (`tb\_pegawai` `tpe` join `tb\_waktu\_kerja` `twak` on(`tpe`.`id\_pegawai` = `twak`.`id\_pegawai`)) group by `twak`.`id\_pegawai` having sum(`twak`.`waktu\_kerja`) > 140 order by sum(`twak`.`waktu\_kerja`) desc;  DROP TABLE IF EXISTS `req\_2\_soal\_i`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_i` AS select `tpe`.`nama\_depan` AS `nama\_pegawai`,sum(`twak`.`waktu\_kerja`) AS `total\_waktu\_kerja`,case when sum(`twak`.`waktu\_kerja`) > 200 then 'Bonus 50%' when sum(`twak`.`waktu\_kerja`) > 150 then 'Bonus 25%' else 'Bonus 10%' end AS `bonus\_kinerja` from (`tb\_pegawai` `tpe` join `tb\_waktu\_kerja` `twak` on(`tpe`.`id\_pegawai` = `twak`.`id\_pegawai`)) group by `twak`.`id\_pegawai` order by sum(`twak`.`waktu\_kerja`) desc;  DROP TABLE IF EXISTS `req\_2\_soal\_j`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_j` AS select `tpe`.`nama\_depan` AS `nama\_pegawai`,count(`twak`.`id\_proyek`) AS `jumlah\_proyek` from (`tb\_pegawai` `tpe` join `tb\_waktu\_kerja` `twak` on(`tpe`.`id\_pegawai` = `twak`.`id\_pegawai`)) group by `tpe`.`id\_pegawai` order by count(`twak`.`id\_proyek`) desc;  DROP TABLE IF EXISTS `req\_2\_soal\_k`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_k` AS select `tpe`.`nama\_depan` AS `nama\_pegawai`,count(`twak`.`id\_proyek`) AS `jumlah\_proyek` from (`tb\_pegawai` `tpe` join `tb\_waktu\_kerja` `twak` on(`tpe`.`id\_pegawai` = `twak`.`id\_pegawai`)) group by `tpe`.`id\_pegawai` having `jumlah\_proyek` >= 4 order by count(`twak`.`id\_proyek`) desc;  DROP TABLE IF EXISTS `req\_2\_soal\_l`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_l` AS select `tpe`.`nama\_depan` AS `nama\_pegawai`,avg(`twak`.`waktu\_kerja`) AS `rata\_rata\_waktu\_kerja`,count(`twak`.`id\_proyek`) AS `jumlah\_proyek` from (`tb\_pegawai` `tpe` join `tb\_waktu\_kerja` `twak` on(`tpe`.`id\_pegawai` = `twak`.`id\_pegawai`)) group by `tpe`.`id\_pegawai` having `rata\_rata\_waktu\_kerja` > 70 and `jumlah\_proyek` >= 2;  DROP TABLE IF EXISTS `req\_2\_soal\_m`;  CREATE ALGORITHM=UNDEFINED SQL SECURITY DEFINER VIEW `req\_2\_soal\_m` AS select `tt`.`hubungan\_tanggungan` AS `hubungan\_tanggungan`,count(`tt`.`hubungan\_tanggungan`) AS `banyaknya\_tanggungan` from (`tb\_pegawai` `tpe` join `tb\_tanggungan` `tt` on(`tpe`.`id\_pegawai` = `tt`.`id\_pegawai`)) group by `tt`.`hubungan\_tanggungan` order by count(`tt`.`hubungan\_tanggungan`) desc;  -- 2022-06-21 21:10:30 |

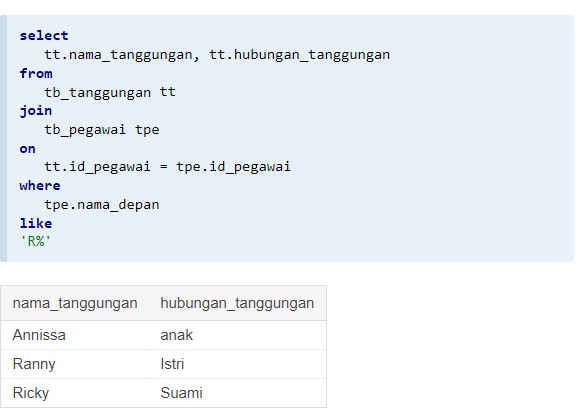
STRUKTUR DATABASE



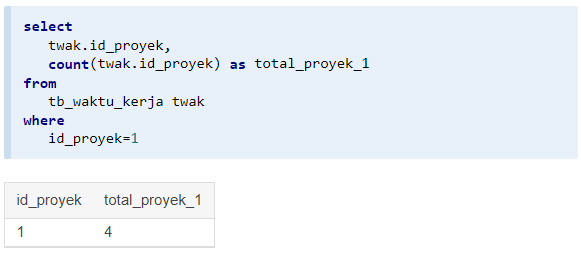


QUERY

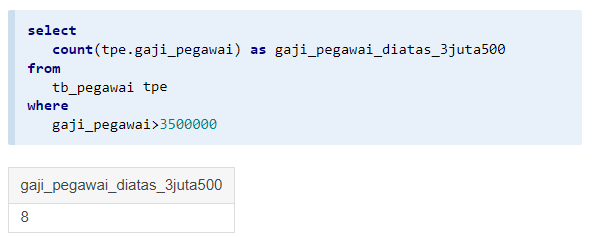
1. dependent\_name dan relationship dengan employee yang namanya diawali huruf R



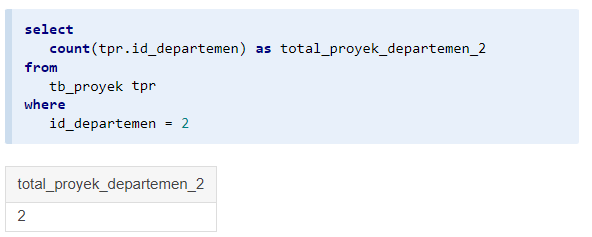
1. banyaknya yang mengerjakan PNum = 1



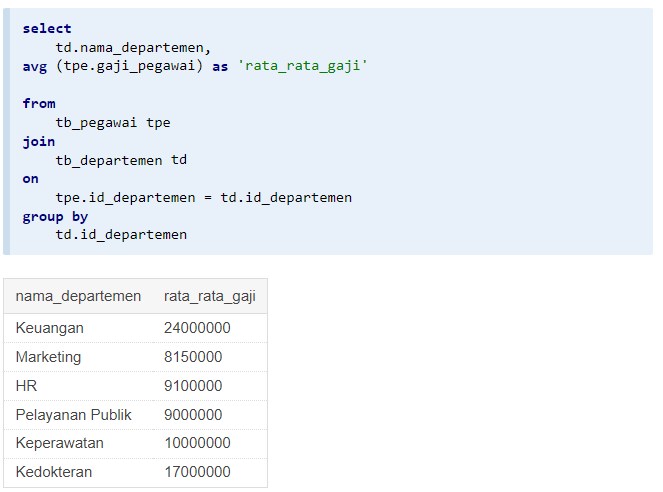
c. Banyaknya employee yang memiliki salary lebih dari 3500000



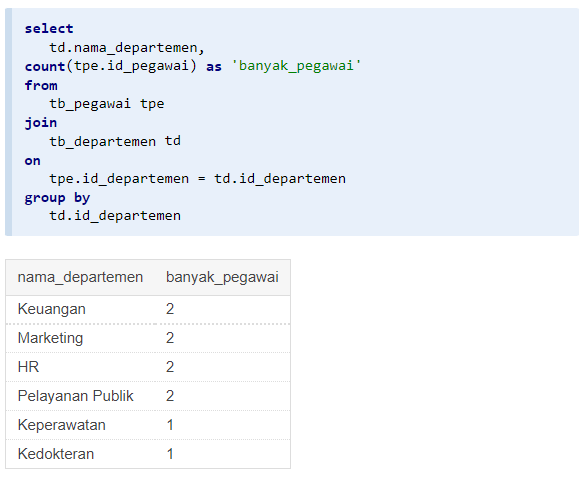
1. banyak project yang dikerjakan DNum = 2



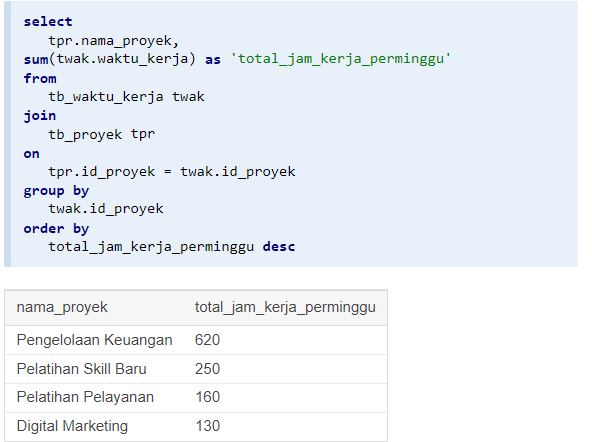
1. hitung total dan rata-rata salary tiap departemen



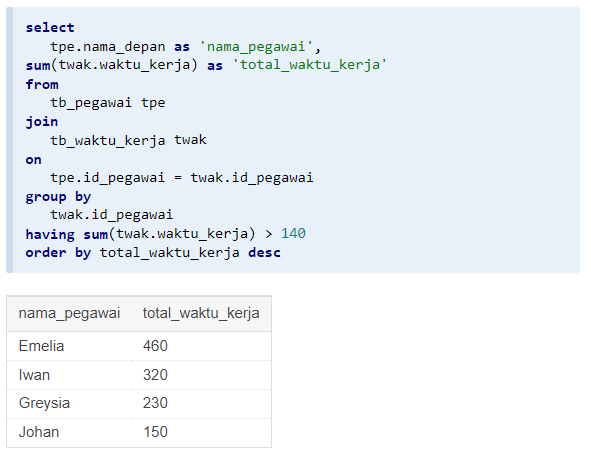
1. Banyaknya employee dari setiap departemen dan urutkan berdasarkan employee terbanyak



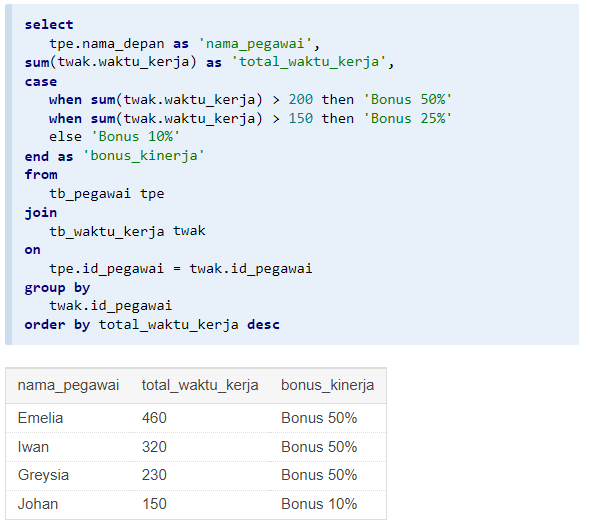
1. Total hours per week dari semua employee untuk setiap project



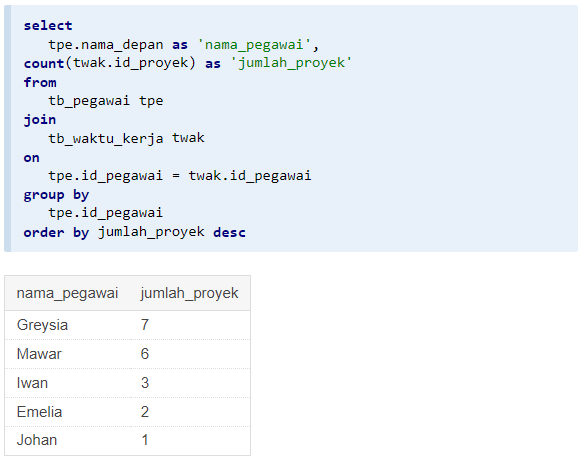
1. Employee yang memiliki total hours per week lebih besar dari 140 hours dan urutkan berdasarkan jumlah jam kerja terbanyak



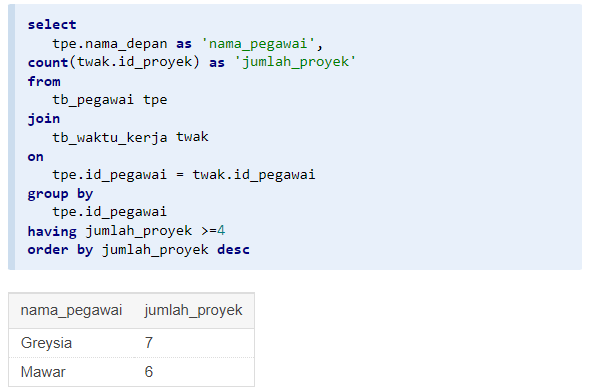
1. Kelompokkan bonus employee berdasarkan jumlah jam kerjanya ? (Jika >= 200 hours, maka bonus = 50%; Jika >= 150 hours, maka bonus = 25%, Selainnya bonus = 10%)



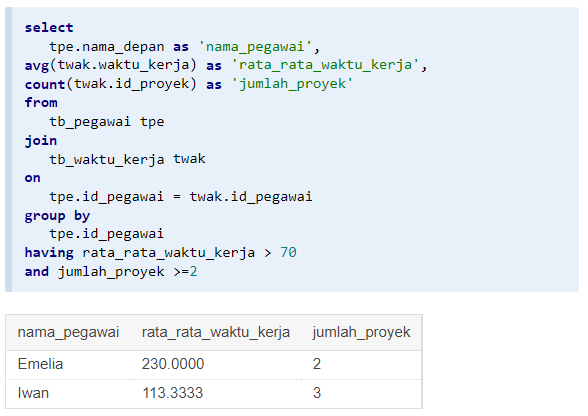
1. Banyaknya project yang dikerjakan tiap employee dan urutkan dari yang terbanyak ?



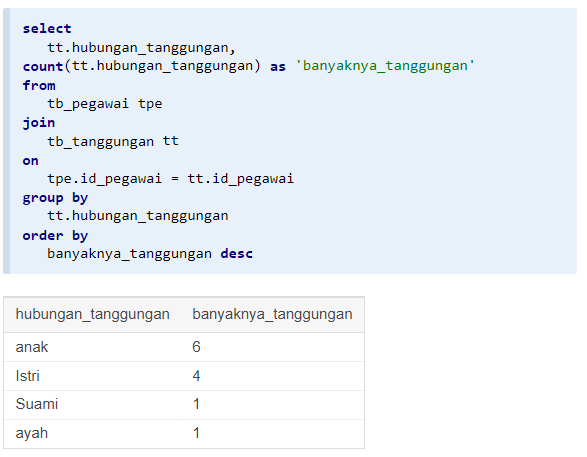
1. Employee yang bekerja pada 4 project



1. Employee yang memiliki rata-rata hours perweek = 70 jam dan bekerja pada 2 project ?



1. Banyaknya Dependent berdasarkan relationship dengan employee ?



1. Berapa lama Manager tiap Department sudah menjabat ?
2. Lokasi project yang menjadi tempat lebih dari satu department?

