# Query JatimParkTicketing

**Create Database**

CREATE DATABASE JatimParkTicketing

**Create Table Pengunjung**

CREATE TABLE pengunjung(

pengunjungID CHAR(10) NOT NULL PRIMARY KEY,

namaPengunjung VARCHAR(50) NOT NULL,

jenisKelamin CHAR(1) NOT NULL,

alamat VARCHAR(50) NOT NULL,

email VARCHAR(50) NOT NULL,

pengunjungDOB DATE,

CONSTRAINT email\_validation CHECK (email REGEXP "^[a-zA-Z0-9][a-zA-Z0-9.!#$%&'\*+-/=?^\_`{|}~]\*?[a-zA-Z0-9.\_-]?@[a-zA-Z0-9][a-zA-Z0-9.\_-]\*?[a-zA-Z0-9]?\\.[a-zA-Z]{2,63}$"),

CONSTRAINT jenisKelamin\_validation CHECK (jenisKelamin REGEXP '^[PL]$'),

CONSTRAINT pengunjungID\_validation CHECK (pengunjungID REGEXP '^[0-9]{10}$')

)

**Create Table Operasional**

**CREATE TABLE Operasional(**

**opDOB CHAR(10) NOT NULL PRIMARY KEY,**

**jamBuka CHAR(5) NOT NULL,**

**jamTutup CHAR(5) NOT NULL,**

**hari VARCHAR(10) NOT NULL,**

**tambahanHarga INT NOT NULL,**

**CONSTRAINT jamBuka\_validation CHECK (jamBuka REGEXP "([01][0-9]|2[0-3]):[0-5][0-9]"),**

**CONSTRAINT jamTutup\_validation CHECK (jamTutup REGEXP "([01][0-9]|2[0-3]):[0-5][0-9]"),**

**CONSTRAINT opDOB\_validation CHECK (opDOB REGEXP "([0-9]{4})-[0-1][0-9]-[0-3][0-9]")**

**)**

**Create Table Paket**

CREATE TABLE Paket(

paketID CHAR(5) NOT NULL PRIMARY KEY,

paketNama VARCHAR(30) NOT NULL,

paketHargaNormal INT NOT NULL,

CONSTRAINT paketID\_validation CHECK (paketID REGEXP '^PA[0-9]{3}$')

)

**Create Table Staff**

**CREATE TABLE Staff(**

**staffID CHAR(5) NOT NULL PRIMARY KEY,**

**staffNama VARCHAR(50) NOT NULL,**

**staffJob VARCHAR(30) NOT NULL,**

**salary INT NOT NULL,**

**CONSTRAINT staffID\_validation CHECK (staffID REGEXP '^ST[0-9]{3}$')**

**)**

**Create Table Category**

**CREATE TABLE Category(**

**categoryID CHAR(5) NOT NULL PRIMARY KEY,**

**namaCategory VARCHAR(25) NOT NULL,**

**CONSTRAINT categoryID\_validation CHECK (categoryID REGEXP '^CA[0-9]{3}$')**

**)**

**Create Table Wahana**

**CREATE TABLE Wahana(**

**wahanaID CHAR(5) NOT NULL PRIMARY KEY,**

**wahanaNama VARCHAR(50) NOT NULL,**

**wahanaLokasi VARCHAR(10) NOT NULL,**

**paketID CHAR(5) NOT NULL,**

**categoryID CHAR(5) NOT NULL,**

**staffID CHAR(5) NOT NULL,**

**FOREIGN KEY (paketID) REFERENCES Paket(paketID),**

**FOREIGN KEY (categoryID) REFERENCES Category(categoryID),**

**FOREIGN KEY (staffID) REFERENCES Staff(staffID),**

**CONSTRAINT wahanaID\_validation CHECK (wahanaID REGEXP '^WA[0-9]{3}$'),**

**CONSTRAINT wahanaLokasi\_validation CHECK(wahanaLokasi REGEXP 'Zone [A-Z]$'),**

**CONSTRAINT paketID\_validation CHECK (paketID REGEXP '^PA[0-9]{3}$'),**

**CONSTRAINT categoryID\_validation CHECK (categoryID REGEXP '^CA[0-9]{3}$'),**

**CONSTRAINT staffID\_validation CHECK (staffID REGEXP '^ST[0-9]{3}$')**

**)**

**Create Table Transaksi**

**CREATE TABLE Transaksi(**

**transaksiID CHAR(10) NOT NULL,**

**harga INT NOT NULL,**

**jumlahPaket INT NOT NULL,**

**pengunjungID CHAR(10) NOT NULL,**

**staffID CHAR(5) NOT NULL,**

**paketID CHAR(5) NOT NULL,**

**opDOB CHAR(10) NOT NULL,**

**PRIMARY KEY (transaksiID, paketID),**

**FOREIGN KEY (pengunjungID) REFERENCES pengunjung(pengunjungID),**

**FOREIGN KEY (staffID) REFERENCES staff(staffID),**

**FOREIGN KEY (paketID) REFERENCES paket(paketID),**

**FOREIGN KEY (opDOB) REFERENCES operasional(opDOB),**

**CONSTRAINT transaksiID\_validation CHECK (transaksiID REGEXP '^[0-9]{10}$'),**

**CONSTRAINT pengunjungID\_validation CHECK (pengunjungID REGEXP '^[0-9]{10}$'),**

**CONSTRAINT staffID\_validation CHECK (staffID REGEXP '^ST[0-9]{3}$'),**

**CONSTRAINT paketID\_validation CHECK (paketID REGEXP '^PA[0-9]{3}$'),**

**CONSTRAINT opDOB\_validation CHECK (opDOB REGEXP "([0-9]{4})-[0-1][0-9]-[0-3][0-9]")**

**)**

**Create Table Pembayaran**

**CREATE TABLE Pembayaran(**

**paymentID CHAR(10) NOT NULL PRIMARY KEY,**

**paymentDate DATE NOT NULL,**

**paymentMethod VARCHAR(10) NOT NULL,**

**paymentTotal INT NOT NULL,**

**transaksiID CHAR(10) NOT NULL,**

**FOREIGN KEY (transaksiID) REFERENCES transaksi(transaksiID),**

**CONSTRAINT paymentID\_validation CHECK (paymentID REGEXP '^[a-zA-Z0-9]{10}$'),**

**CONSTRAINT transaksiID\_validation CHECK (transaksiID REGEXP '^[0-9]{10}$')**

**)**

**Create Table Tiket**

**CREATE TABLE Tiket(**

**tiketID CHAR(10) NOT NULL,**

**tiketHarga INT NOT NULL,**

**tiketJumlah INT NOT NULL,**

**paymentID CHAR(10) NOT NULL,**

**transaksiID CHAR(10) NOT NULL,**

**pengunjungID CHAR(10) NOT NULL,**

**paketID CHAR(5) NOT NULL,**

**PRIMARY KEY (tiketID, paketID),**

**FOREIGN KEY (paymentID) REFERENCES pembayaran(paymentID),**

**FOREIGN KEY (transaksiID) REFERENCES transaksi(transaksiID),**

**FOREIGN KEY (pengunjungID) REFERENCES pengunjung(pengunjungID),**

**FOREIGN KEY(paketID) REFERENCES paket(paketID),**

**CONSTRAINT tiketID\_validation CHECK (tiketID REGEXP '^[0-9]{10}$'),**

**CONSTRAINT paymentID\_validation CHECK (paymentID REGEXP '^[a-zA-Z0-9]{10}$'),**

**CONSTRAINT transaksiID\_validation CHECK (transaksiID REGEXP '^[0-9]{10}$'),**

**CONSTRAINT pengunjungID\_validation CHECK (pengunjungID REGEXP '^[0-9]{10}$'),**

**CONSTRAINT paketID\_validation CHECK (paketID REGEXP '^PA[0-9]{3}$')**

**)**

**Pemasukan data :   
Table Pengunjung**

**INSERT INTO pengunjung VALUES**

**('1000000001', 'Nabila', 'P', 'Kediri', 'nabila227@gmail.com', '2004-01-08'),**

**('1000000002', 'Sekar', 'P', 'Magelang', 'sekar123@gmail.com', '2002-09-09'),**

**('1000000003', 'Rahel', 'P', 'Pasuruan', 'rahelo@yahoo.com', '2001-06-10'),**

**('1000000004', 'Regina', 'P', 'Samarinda', 'regin4@gmail.com', '2004-09-11'),**

**('1000000005', 'Levi', 'P', 'Singosari', 'levi@gmail.com', '2007-01-12'),**

**('1000000006', 'Jovan', 'L', 'Surabaya', 'navoj007@yahoo.com', '2004-01-13'),**

**('1000000007', 'Jenar', 'L', 'Malang', 'jenara441@gmail.com', '2004-01-14'),**

**('1000000008', 'Laras', 'P', 'Banyuwangi', 'larasatiAyu@gmail.com', '2004-01-15'),**

**('1000000009', 'Patricia', 'P', 'Yogyakarta', 'patriciii@gmail.com', '2004-01-16'),**

**('1000000010', 'Jared', 'L', 'Solo', 'jared79@yahoo.com', '2004-01-17'),**

**('1000000011', 'Narendra', 'L', 'Bali', 'nareansa@gmail.com', '2004-01-18'),**

**('1000000012', 'Zhafira', 'P', 'Lombok', 'zhafiramaa@gmail.com', '2004-01-19'),**

**('1000000013', 'Jamal', 'L', 'Sidoarjo', 'jalaman@yahoo.com', '2004-01-20'),**

**('1000000014', 'Haikal', 'L', 'Bandung', 'haehaikal@gmail.com', '2004-01-21'),**

**('1000000015', 'Arabella', 'P', 'Jakarta', 'bellaswan@yahoo.com', '2004-01-22')**

**Table Operasional**

**INSERT INTO operasional VALUES**

**('2023-12-02', '08:30', '16:30', 'Sabtu', 20000),**

**('2023-12-03', '08:30', '16:30', 'Minggu', 20000),**

**('2023-12-04', '08:30', '16:30', 'Senin', 0),**

**('2023-12-05', '08:30', '16:30', 'Selasa', 0),**

**('2023-12-06', '08:30', '16:30', 'Rabu', 0),**

**('2023-12-07', '08:30', '16:30', 'Kamis', 0),**

**('2023-12-08', '08:30', '16:30', 'Jumat', 20000),**

**('2023-12-09', '08:30', '16:30', 'Sabtu', 20000),**

**('2023-12-10', '08:30', '16:30', 'Minggu', 20000),**

**('2023-12-11', '08:30', '16:30', 'Senin', 0),**

**('2023-12-12', '08:30', '16:30', 'Selasa', 0),**

**('2023-12-13', '08:30', '16:30', 'Rabu', 0),**

**('2023-12-14', '08:30', '16:30', 'Kamis', 0),**

**('2023-12-15', '08:30', '16:30', 'Jumat', 20000),**

**('2023-12-16', '08:30', '16:30', 'Sabtu', 20000),**

**('2023-12-17', '08:30', '16:30', 'Minggu', 20000),**

**('2023-12-18', '08:30', '16:30', 'Senin', 40000),**

**('2023-12-19', '08:30', '16:30', 'Selasa', 40000),**

**('2023-12-20', '08:30', '16:30', 'Rabu', 40000),**

**('2023-12-21', '08:30', '16:30', 'Kamis', 40000),**

**('2023-12-22', '08:30', '16:30', 'Jumat', 40000),**

**('2023-12-23', '08:30', '16:30', 'Sabtu', 40000),**

**('2023-12-24', '08:30', '16:30', 'Minggu', 40000),**

**('2023-12-25', '08:30', '16:30', 'Senin', 40000),**

**('2023-12-26', '08:30', '16:30', 'Selasa', 40000),**

**('2023-12-27', '08:30', '16:30', 'Rabu', 40000),**

**('2023-12-28', '08:30', '16:30', 'Kamis', 40000),**

**('2023-12-29', '08:30', '16:30', 'Jumat', 40000),**

**('2023-12-30', '08:30', '16:30', 'Sabtu', 40000),**

**('2023-12-31', '08:30', '16:30', 'Minggu', 40000)**

**Table Paket**

**INSERT INTO paket VALUES**

**('PA001', 'Family Package', 60000),**

**('PA002', 'Adventure Package', 80000),**

**('PA003', 'Weekend Package', 90000),**

**('PA004', 'VIP Package', 120000),**

**('PA005', 'Thrill Seeker Package', 95000),**

**('PA006', 'Kids Special', 55000),**

**('PA007', 'Couples Retreat', 110000),**

**('PA008', 'Group Fun', 70000),**

**('PA009', 'Holiday Splendor', 100000),**

**('PA010', 'Basic Package', 50000),**

**('PA011', 'Premium Package', 75000)**

**Table Staff**

**INSERT INTO staff VALUES**

**('ST001', 'Jamie', 'Kasir', 32000),**

**('ST002', 'Landon', 'Kebersihan', 30000),**

**('ST003', 'Lia', 'Keamanan', 38000),**

**('ST004', 'Rara', 'Teknisi', 45000),**

**('ST005', 'Ruben', 'Badut', 37000),**

**('ST006', 'Alam', 'Petugas Parkir', 30000),**

**('ST007', 'Bambang', 'Customer Service', 37000),**

**('ST008', 'Gibran', 'Kebersihan', 30000),**

**('ST009', 'Rama', 'Keamanan', 38000),**

**('ST010', 'Fiona', 'Kasir', 32000),**

**('ST011', 'Jati', 'Operator Wahana', 36000),**

**('ST012', 'Devina', 'Operator Wahana', 36000),**

**('ST013', 'Dylan', 'Operator Wahana', 36000),**

**('ST014', 'Suma', 'Teknisi ', 45000),**

**('ST015', 'Mira', 'Pertolongan Pertama', 32000)**

**Table Category**

**INSERT INTO category VALUES**

**('CA001', 'Adventure'),**

**('CA002', 'Thrill'),**

**('CA003', 'Edukasi'),**

**('CA004', 'Anak-Anak'),**

**('CA005', 'Rileksasi'),**

**('CA006', 'Petualangan Air'),**

**('CA007', 'Keluarga Besar'),**

**('CA008', 'Komedi'),**

**('CA009', 'Family'),**

**('CA010', 'Fantasi'),**

**('CA011', 'Seni dan Budaya')**

**Table Wahana**

**INSERT INTO wahana VALUES**

**('WA001', 'Roller Coaster', 'Zone C', 'PA001', 'CA001', 'ST013'),**

**('WA002', 'Bianglala', 'Zone D', 'PA002', 'CA009', 'ST011'),**

**('WA003', 'Flying Swings', 'Zone E', 'PA001', 'CA001', 'ST011'),**

**('WA004', 'Labirin', 'Zone F', 'PA002', 'CA001', 'ST012'),**

**('WA005', 'Kastil Fantasi', 'Zone G', 'PA001', 'CA004', 'ST013'),**

**('WA006', 'Taman Bermain', 'Zone H', 'PA002', 'CA005', 'ST011'),**

**('WA007', 'Taman Santai', 'Zone I', 'PA002', 'CA009', 'ST012'),**

**('WA008', 'Petualangan Air', 'Zone J', 'PA001', 'CA006', 'ST013'),**

**('WA009', 'Panggung Hiburan', 'Zone K', 'PA007', 'CA009', 'ST011'),**

**('WA010', 'Perjalanan Perahu', 'Zone L', 'PA007', 'CA006', 'ST012'),**

**('WA011', 'Becak Air', 'Zone L', 'PA007', 'CA006', 'ST012')**

**STORE PROCEDURE TRANSAKSI**

**DELIMITER //**

**CREATE PROCEDURE doTransaksi(**

**IN ID\_Transaksi CHAR(10),**

**IN ID\_Pengunjung CHAR(10),**

**IN ID\_Staff CHAR(5),**

**IN ID\_Paket CHAR(5),**

**IN opDate CHAR(10),**

**IN jumlah\_paket INT**

**)**

**BEGIN**

**-- Memasukkan data ke dalam tabel transaksi**

**INSERT INTO transaksi**

**VALUES (ID\_Transaksi, 1, jumlah\_paket, ID\_Pengunjung, ID\_Staff, ID\_Paket, opDate);**

**-- Menghitung total harga dari transaksi dan memperbarui kolom harga pada tabel transaksi**

**UPDATE transaksi T**

**SET T.harga = (**

**SELECT ((P.paketHargaNormal + O.tambahanHarga) \* jumlah\_paket)**

**FROM operasional O**

**JOIN paket P ON T.paketID = P.paketID**

**WHERE O.opDOB = opDate AND P.paketID = ID\_Paket**

**)**

**WHERE T.transaksiID = ID\_Transaksi AND T.paketID = ID\_Paket;**

**END //**

**DELIMITER ;**

**Call doTransaksi :**

**CALL doTransaksi('1111222233', '1000000001', 'ST001', 'PA002', '2023-12-03', 8)**

**CALL doTransaksi('1111222233', '1000000001', 'ST001', 'PA007', '2023-12-03', 4)**

**CALL doTransaksi('1111222233', '1000000001', 'ST001', 'PA008', '2023-12-03', 2)**

**CALL doTransaksi('2222333344', '1000000002', 'ST010', 'PA001', '2023-12-05', 10)**

**CALL doTransaksi('3333444455', '1000000003', 'ST001', 'PA001', '2023-12-05', 10)**

**CALL doTransaksi('3333444455', '1000000003', 'ST001', 'PA004', '2023-12-05', 5)**

**CALL doTransaksi('4444555566', '1000000004', 'ST010', 'PA001', '2023-12-08', 4)**

**CALL doTransaksi('4444555566', '1000000004', 'ST010', 'PA009', '2023-12-08', 3)**

**CALL doTransaksi('5555666677', '1000000005', 'ST001', 'PA002', '2023-12-08', 5)**

**CALL doTransaksi('5555666677', '1000000005', 'ST001', 'PA006', '2023-12-08', 5)**

**CALL doTransaksi('6666777788', '1000000006', 'ST010', 'PA002', '2023-12-11', 7)**

**CALL doTransaksi('6666777788', '1000000006', 'ST010', 'PA005', '2023-12-11', 4)**

**CALL doTransaksi('7777888899', '1000000007', 'ST001', 'PA001', '2023-12-12', 4)**

**CALL doTransaksi('8888999910', '1000000008', 'ST010', 'PA002', '2023-12-13', 9)**

**CALL doTransaksi('9999101011', '1000000009', 'ST001', 'PA007', '2023-12-14', 8)**

**CALL doTransaksi('1010111112', '1000000010', 'ST010', 'PA001', '2023-12-15', 10)**

**CALL doTransaksi('1111121213', '1000000011', 'ST001', 'PA001', '2023-12-16', 5)**

**STORE PROCEDURE PEMBAYARAN**

**DELIMITER //**

**CREATE PROCEDURE doPembayaran(**

**IN ID\_Bayar CHAR(10),**

**IN ID\_Transaksi CHAR(10)**

**)**

**BEGIN**

**INSERT INTO pembayaran**

**VALUES (ID\_Bayar,**

**(SELECT DISTINCT(T.opDOB) FROM transaksi T WHERE T.transaksiID = ID\_Transaksi),**

**'Online',**

**(SELECT SUM(T.harga) FROM transaksi T WHERE T.transaksiID = ID\_Transaksi GROUP BY T.transaksiID),**

**ID\_Transaksi);**

**END //**

**DELIMITER ;**

**CALL doPembayaran :**

**CALL doPembayaran('ABC1234567', '1111222233')**

**CALL doPembayaran('DEF2345678', '2222333344')**

**CALL doPembayaran('GHI3456782', '3333444455')**

**CALL doPembayaran('JKL4567890', '4444555566')**

**CALL doPembayaran('MNO5678901', '5555666677')**

**CALL doPembayaran('PGR6789012', '6666777788')**

**CALL doPembayaran('STU7890123', '7777888899')**

**CALL doPembayaran('VWX8901234', '8888999910')**

**CALL doPembayaran('YZA9012345', '9999101011')**

**CALL doPembayaran('BCD0123456', '1010111112')**

**CALL doPembayaran('CDE1234567', '1111121213')**

**STORE PROCEDURE TIKET**

**DELIMITER //**

**CREATE PROCEDURE doTiket(**

**IN ID\_Tiket CHAR(10),**

**IN ID\_Pembayaran CHAR(10),**

**IN ID\_Transaksi CHAR(10),**

**IN ID\_Pengunjung CHAR(10),**

**IN ID\_Paket CHAR(5) )**

**BEGIN**

**INSERT INTO tiket VALUES**

**(ID\_Tiket, 1, 1, ID\_Pembayaran, ID\_Transaksi, ID\_Pengunjung , ID\_Paket);**

**UPDATE tiket Ti**

**SET Ti.tiketHarga = (SELECT T.harga**

**FROM transaksi T**

**WHERE T.paketID = ID\_Paket AND T.transaksiID = ID\_Transaksi),**

**Ti.tiketJumlah = (SELECT T.jumlahPaket**

**FROM transaksi T**

**WHERE T.paketID = ID\_Paket AND T.transaksiID = ID\_Transaksi)**

**WHERE Ti.paketID = ID\_Paket AND Ti.transaksiID = ID\_Transaksi;**

**END //**

**DELIMITER ;**

**CALL doTiket :**

**CALL doTiket('1234567890', 'ABC1234567', '1111222233', '1000000001', 'PA002')**

**CALL doTiket('1234567890', 'ABC1234567', '1111222233', '1000000001', 'PA007')**

**CALL doTiket('1234567890', 'ABC1234567', '1111222233', '1000000001', 'PA008')**

**CALL doTiket('2345678910', 'DEF2345678', '2222333344', '1000000002', 'PA001')**

**CALL doTiket('3456789101', 'GHI3456782', '3333444455', '1000000003', 'PA001')**

**CALL doTiket('3456789101', 'GHI3456782', '3333444455', '1000000003', 'PA004')**

**CALL doTiket('4567891011', 'JKL4567890', '4444555566', '1000000004', 'PA001')**

**CALL doTiket('4567891011', 'JKL4567890', '4444555566', '1000000004', 'PA009')**

**CALL doTiket('5678910111', 'MNO5678901', '5555666677', '1000000005', 'PA002')**

**CALL doTiket('5678910111', 'MNO5678901', '5555666677', '1000000005', 'PA006')**

**CALL doTiket('6789101112', 'PGR6789012', '6666777788', '1000000006', 'PA002')**

**CALL doTiket('6789101112', 'PGR6789012', '6666777788', '1000000006', 'PA005')**

**CALL doTiket('7891011121', 'STU7890123', '7777888899', '1000000007', 'PA001')**

**CALL doTiket('8910111213', 'VWX8901234', '8888999910', '1000000008', 'PA002')**

**CALL doTiket('9101112131', 'YZA9012345', '9999101011', '1000000009', 'PA007')**

**CALL doTiket('1011121314', 'BCD0123456', '1010111112', '1000000010', 'PA001')**

**CALL doTiket('1112131415', 'CDE1234567', '1111121213', '1000000011', 'PA001')**

**VIEW UNTUK MELIHAT DETAIL MENGENAI JENIS PAKET, NAMA PAKET, WAHANA YANG DIDAPAT DAN LOKASINYA**

**CREATE VIEW ListWahanaSesuaiPaket**

**AS**

**SELECT P.paketID AS ID\_Paket, P.paketNama AS Nama\_Paket, GROUP\_CONCAT(C.namaCategory SEPARATOR '\n') AS Nama\_Kategori, GROUP\_CONCAT(W.wahanaNama SEPARATOR '\n') AS List\_Wahana, GROUP\_CONCAT(W.wahanaLokasi SEPARATOR '\n') AS Lokasi\_Wahana**

**FROM paket P JOIN wahana W ON W.paketID = P.paketID**

**JOIN category C ON W.categoryID = C.categoryID**

**GROUP BY P.paketID**

**UNTUK MEMANGGIL VIEW INI**

**SELECT \* FROM ListWahanaSesuaiPaket**

**VIEW UNTUK MELIHAT LIST DARI PENJUALAN PAKET (YANG BERGUNA UNTUK MELIHAT TREND)**

**CREATE VIEW ListPenjualanPaket**

**AS**

**SELECT P.paketID AS ID\_Paket, P.paketNama AS Nama\_Paket, SUM(T.jumlahPaket) AS Jumlah\_Paket, SUM(T.harga) AS Total\_Harga**

**FROM paket P JOIN transaksi T ON P.paketID = T.paketID**

**GROUP BY P.paketID, P.paketNama**

**ORDER BY Jumlah\_Paket DESC**

**UNTUK MEMANGGIL VIEW INI**

**SELECT \* FROM ListPenjualanPaket**