

Scripts

CREATE SCRIPTS

Table 1

```
CREATE TABLE Driving(  
ServiceID VARCHAR(25) PRIMARY KEY,  
ServiceLevel VARCHAR(8),  
ServiceType VARCHAR(15)  
);
```

Table 2

```
CREATE TABLE CabDriver_Offer(  
EmployeeID VARCHAR(4) PRIMARY KEY ,  
ContactNumber VARCHAR(14),  
Email VARCHAR(50),  
DriverLicense VARCHAR(10),  
FName VARCHAR(15),  
LName VARCHAR(15),  
DateOfBirth DATE,  
ServiceID VARCHAR(25) NOT NULL,  
FOREIGN KEY (ServiceID) REFERENCES Driving(ServiceID)  
ON DELETE CASCADE  
ON UPDATE CASCADE);
```

Table 3

```
CREATE TABLE Driving_Type_Level(  
ServiceCost DOUBLE,  
ServiceType VARCHAR(15),  
ServiceLevel VARCHAR(8),  
PRIMARY KEY (ServiceType,ServiceLevel)  
);
```

Table 4

```
CREATE TABLE Insurance_Policy(  
ServiceID VARCHAR(25) PRIMARY KEY,  
PolicyNumber VARCHAR(4),
```

PolicyName CHAR(5),
CoverageType VARCHAR(3));

Table 5

CREATE TABLE Insurance_Coverage(
CoverageType VARCHAR(3),
PolicyName VARCHAR(5),
ServiceCost DOUBLE,
PRIMARY KEY (CoverageType,PolicyName)
);

Table 6

CREATE TABLE OfficeStaff(
EmployeeID VARCHAR(4),
ContactNumber VARCHAR(14),
Email VARCHAR(15),
FName VARCHAR(15),
LName VARCHAR(15),
DateOfBirth DATE,
Position VARCHAR(12),
Department VARCHAR(15),
PRIMARY KEY(EmployeeID)
);

Table 7

CREATE TABLE Help_Customer(
CustomerID VARCHAR(25) PRIMARY KEY,

```
Age INTEGER,  
LName VARCHAR(15),  
FName VARCHAR(15),  
EmployeeID VARCHAR(4) NOT NULL,  
FOREIGN KEY (EmployeeID) REFERENCES OfficeStaff(EmployeeID)  
ON DELETE CASCADE  
);
```

Table 8

```
CREATE TABLE Address_PostalCode(  
PostalCode CHAR(7) PRIMARY KEY,  
City VARCHAR(15),  
Province VARCHAR(15)  
);
```

Table 9

```
CREATE TABLE Address_CustomerID(  
PostalCode CHAR(7),  
CustomerID VARCHAR(25),  
HouseNumber INTEGER(6),  
PRIMARY KEY( CustomerID,PostalCode),  
FOREIGN KEY(CustomerID) REFERENCES Help_Customer(CustomerID)  
ON DELETE CASCADE  
);
```

Table 10

```
CREATE TABLE Category(  
CategoryName VARCHAR(10),
```

CostPerDay DOUBLE,
PassengerCount INTEGER,
UsabilityType CHAR(7),
PRIMARY KEY(CategoryName,UsabilityType)
);

Table 11

CREATE TABLE Location(
CheckToken VARCHAR(4) PRIMARY KEY,
DropoffDate DATE,
PickupDate DATE,
Address VARCHAR(50)
);

Table 12

CREATE TABLE Rent_Car_Under_Booking_Pickup_Dropoff (
PlateNumber VARCHAR(8) PRIMARY KEY ,
Make VARCHAR(12),
Model VARCHAR(12),
Colour VARCHAR(10),
ModelYear CHAR(4),
BookingID VARCHAR(25),
CategoryName VARCHAR(10) NOT NULL,
UsabilityType VARCHAR(7) NOT NULL,
CustomerID VARCHAR(25) NOT NULL,
CheckToken VARCHAR(4) NOT NULL,
FOREIGN KEY (CustomerID) REFERENCES Help_Customer(CustomerID),
FOREIGN KEY (CategoryName, UsabilityType) REFERENCES Category(CategoryName, UsabilityType),

FOREIGN KEY (CheckToken) REFERENCES Location(CheckToken)
ON DELETE CASCADE
ON UPDATE CASCADE
);

Table 13

```
CREATE TABLE Payment(  
PaymentID VARCHAR(25)          PRIMARY KEY,  
Amount DOUBLE,  
CardType VARCHAR(6),  
PaymentStatus VARCHAR(12),  
PaymentDate DATE  
);
```

INSERT VALUES

OfficeStaff

```
INSERT INTO OfficeStaff(EmployeeID, ContactNumber, Email,FName,LName,DateOfBirth,  
Position, Department) VALUES('E8','567890','pk@gmail.com','Pasha','Kumar','1994-02-  
01','GeneralClerk','BookKeeper');
```

```
INSERT INTO OfficeStaff(EmployeeID, ContactNumber, Email,FName,LName,DateOfBirth,  
Position, Department) VALUES('E9','778678','sa@gmail.com','Sharjeel','Ahmad','1998-01-  
30','Manager','CustomerService');
```

```
INSERT INTO OfficeStaff(EmployeeID, ContactNumber, Email,FName,LName,DateOfBirth,  
Position, Department) VALUES('E10','234765','hk@gmail.com','Harleen','Kaur','2001-04-  
18','GeneralClerk','Information');
```

```
INSERT INTO OfficeStaff(EmployeeID, ContactNumber, Email,FName,LName,DateOfBirth,  
Position, Department) VALUES('E11','236998','sps@gmail.com','Sanyam','Singh','2000-01-  
10','GeneralClerk','CustomerService');
```

```
INSERT INTO OfficeStaff(EmployeeID, ContactNumber, Email,FName,LName,DateOfBirth,  
Position, Department) VALUES('E12','789076','hs@gmail.com','Harry','Styles','1994-02-  
01','Supervisor','Information');
```

```
INSERT INTO OfficeStaff(EmployeeID, ContactNumber, Email,FName,LName,DateOfBirth,
Position, Department) VALUES('E13','567890','rk@gmail.com','Pasha','Kumar','1995-05-
02','GeneralClerk','CustomerService');
```

Help_Customer

```
INSERT INTO help_customer(CustomerID, Age, LName, FName, EmployeeID)
VALUES('C001','19','Singh','Harnoor','E9') ;
INSERT INTO help_customer(CustomerID, Age, LName, FName, EmployeeID)
VALUES('C9981','25','Thomson','Roy','E11') ;
INSERT INTO help_customer(CustomerID, Age, LName, FName, EmployeeID)
VALUES('C0081','21','Anderson','Emily','E13') ;
INSERT INTO help_customer(CustomerID, Age, LName, FName, EmployeeID)
VALUES('C09','55','Azhar','Talha','E11') ;
INSERT INTO help_customer(CustomerID, Age, LName, FName, EmployeeID)
VALUES('C12','33','Azhar','Asim','E13') ;
INSERT INTO help_customer(CustomerID, Age, LName, FName, EmployeeID)
VALUES('C124','21','Shelby','Thomas','E12') ;
```

Driving

```
INSERT INTO Driving(ServiceID,ServiceLevel,ServiceType)
VALUES('S001','L1Driver','InCity');
INSERT INTO Driving(ServiceID,ServiceLevel,ServiceType)
VALUES('S002','L2Driver','OutCity');
INSERT INTO Driving(ServiceID,ServiceLevel,ServiceType)
VALUES('S003','L2Driver','HillSpecial');
INSERT INTO Driving(ServiceID,ServiceLevel,ServiceType)
VALUES('S0041','L3Driver','LongPeriod');
INSERT INTO Driving(ServiceID,ServiceLevel,ServiceType)
VALUES('S035','L1Driver','OneWay');
INSERT INTO Driving(ServiceID,ServiceLevel,ServiceType)
VALUES('S1255','L3Driver','LongPeriod');
INSERT INTO Driving(ServiceID,ServiceLevel,ServiceType)
VALUES('SA0976','L1Driver','InCity');
```

CabDriver_Offer

```
INSERT INTO CabDriver_Offer(EmployeeID, ContactNumber, Email, DriverLicense, FName,
LName, DateOfBirth, ServiceID)
VALUES('E1',7785,'j@hotmail.com','DL:4376703','Jack','Ping','1990-01-02','S001');
INSERT INTO CabDriver_Offer(EmployeeID, ContactNumber, Email, DriverLicense, FName,
LName, DateOfBirth, ServiceID)
VALUES('E2',4534,'jt@hotmail.com','DL:4198401','Joey','Tribiani','1996-01-05','S002');
```

```

INSERT INTO CabDriver_Offer(EmployeeID, ContactNumber, Email, DriverLicense, FName,
LName, DateOfBirth, ServiceID)
VALUES('E3',NULL,'mc@hotmail.com','DL:4287809','Monica','Singh','1995-01-01','S003');
INSERT INTO CabDriver_Offer(EmployeeID, ContactNumber, Email, DriverLicense, FName,
LName, DateOfBirth,
ServiceID)VALUES('E4',6023,'jc@hotmail.com','DL:3021911','Jack','Charles','1997-01-
08','S002');
INSERT INTO CabDriver_Offer(EmployeeID, ContactNumber, Email, DriverLicense, FName,
LName, DateOfBirth, ServiceID)
VALUES('E5',1287,'ab@hotmail.com','DL:4564344','Abhishek','Kumar','1993-02-05','S0041');
INSERT INTO CabDriver_Offer(EmployeeID, ContactNumber, Email, DriverLicense, FName,
LName, DateOfBirth, ServiceID) VALUES('E6',6786,NULL,'DL:6789076','Steve','Hardy','1997-
01-08','SA0976');

```

Driving_Type_Level

```

INSERT INTO Driving_Type_Level(ServiceLevel,ServiceType,ServiceCost)
VALUES('L1Driver','InCity','20.00');
INSERT INTO Driving_Type_Level(ServiceLevel,ServiceType,ServiceCost)
VALUES('L2Driver','OutCity','30.00');
INSERT INTO Driving_Type_Level(ServiceLevel,ServiceType,ServiceCost)
VALUES('L2Driver','HillSpecial','35.00');
INSERT INTO Driving_Type_Level(ServiceLevel,ServiceType,ServiceCost)
VALUES('L3Driver','LongPeriod','45.00');
INSERT INTO Driving_Type_Level(ServiceLevel,ServiceType,ServiceCost)
VALUES('L1Driver','OneWay','15.00');

```

Insurance Policy

```

INSERT INTO Insurance_Policy(ServiceID, PolicyNumber, PolicyName, CoverageType)
VALUES('S008','P01','Basic','LDW');
INSERT INTO Insurance_Policy(ServiceID, PolicyNumber, PolicyName, CoverageType)
VALUES('S0081','P02','Super','LI');
INSERT INTO Insurance_Policy(ServiceID, PolicyNumber, PolicyName, CoverageType)
VALUES('S003','P01','Super','PEC');
INSERT INTO Insurance_Policy(ServiceID, PolicyNumber, PolicyName, CoverageType)
VALUES('S1255','P03','Basic','PAI');
INSERT INTO Insurance_Policy(ServiceID, PolicyNumber, PolicyName, CoverageType)
VALUES('SA07','P05','Super','LI');
INSERT INTO Insurance_Policy(ServiceID, PolicyNumber, PolicyName, CoverageType)
VALUES('SB34','P04','Basic','PAI');
INSERT INTO Insurance_Policy(ServiceID, PolicyNumber, PolicyName, CoverageType)
VALUES('S010','P09','Super','LDW');

```

Insurance Coverage

```

INSERT INTO Insurance_Coverage(PolicyName, CoverageType, ServiceCost)
VALUES('Basic','LDW','30.00');
INSERT INTO Insurance_Coverage(PolicyName, CoverageType, ServiceCost)
VALUES('Super','LI','35.00');
INSERT INTO Insurance_Coverage(PolicyName, CoverageType, ServiceCost)
VALUES('Super','PEC','25.00');
INSERT INTO Insurance_Coverage(PolicyName, CoverageType, ServiceCost)
VALUES('Basic','PAI','20.00');
INSERT INTO Insurance_Coverage(PolicyName, CoverageType, ServiceCost)
VALUES('Super','LDW','40.00');

```

Category

```

INSERT INTO Category(CategoryName, CostPerDay, PassengerCount, UsabilityType)
VALUES('SUV', '40.00', '3', 'Special');
INSERT INTO Category(CategoryName, CostPerDay, PassengerCount, UsabilityType)
VALUES('MidsizeSUV', '25.00', '5', 'Regular');
INSERT INTO Category(CategoryName, CostPerDay, PassengerCount, UsabilityType)
VALUES('Coupe', '50.00', '2', 'Regular');
INSERT INTO Category(CategoryName, CostPerDay, PassengerCount, UsabilityType)
VALUES('SUV', '30.00', '7', 'Regular');
INSERT INTO Category(CategoryName, CostPerDay, PassengerCount, UsabilityType)
VALUES('Sedan', '20.00', '5', 'Regular');

```

Location

```

INSERT INTO Location(CheckToken, DropOffDate, PickupDate, Address)
VALUES('CT1', '2022-07-05', '2022-07-03', '1209 Glenabbey V5A3X1');
INSERT INTO Location(CheckToken, DropOffDate, PickupDate, Address)
VALUES('CT2', '2022-07-05', '2022-07-03', '110 Duthie V5A3X2');
INSERT INTO Location(CheckToken, DropOffDate, PickupDate, Address)
VALUES('CT3', '2022-07-08', '2022-07-03', '190 ScottRoad V5A3X3');
INSERT INTO Location(CheckToken, DropOffDate, PickupDate, Address)
VALUES('CT4', '2022-07-10', '2022-07-03', '1204 Glenabbey V5A3X4');
INSERT INTO Location(CheckToken, DropOffDate, PickupDate, Address)
VALUES('CT5', '2022-07-12', '2022-07-03', '190 ScottRoad V5A3X3');

```

Payment

```

INSERT INTO Payment(PaymentID, Amount, CardType, PaymentStatus, PaymentDate)
VALUES('P01', '100.00', 'Debit', 'Confirmed', '2022-01-10');

INSERT INTO Payment(PaymentID, Amount, CardType, PaymentStatus, PaymentDate)
VALUES('P20', '200.00', 'Credit', 'Confirmed', '2022-01-15');

```



```
INSERT INTO Payment(PaymentID,Amount,CardType,PaymentStatus,PaymentDate)
VALUES('P3001','100.00','Debit','NotConfirmed','2022-02-10');
```

```
INSERT INTO Payment(PaymentID,Amount,CardType,PaymentStatus,PaymentDate)
VALUES('P0094','300.00','Credit','NotConfirmed','2022-01-20');
```

```
INSERT INTO Payment(PaymentID,Amount,CardType,PaymentStatus,PaymentDate)
VALUES('P5','255.00','Debit','Confirmed','2022-02-01');
```

```
INSERT INTO Payment(PaymentID,Amount,CardType,PaymentStatus,PaymentDate)
VALUES('P001','80.00','Credit','Confirmed','2022-01-26');
```

Rent_Car_Under_Booking_Pickup_Dropoff

```
INSERT INTO
Rent_Car_Under_Booking_Pickup_Dropoff(PlateNumber,Make,Model,Colour,ModelYear,Boo
kingID,CategoryName,UsabilityType,CustomerID,CheckToken) VALUES('NA0
25T','Honda','CRV','Blue',2020,'B01','SUV','Regular','C001','CT1');
```

```
INSERT INTO
Rent_Car_Under_Booking_Pickup_Dropoff(PlateNumber,Make,Model,Colour,ModelYear,Boo
kingID,CategoryName,UsabilityType,CustomerID,CheckToken) VALUES('VA2
24A','Honda','Civic','Green',2018,'B0022','Sedan','Regular','C0081','CT2');
```

```
INSERT INTO
Rent_Car_Under_Booking_Pickup_Dropoff(PlateNumber,Make,Model,Colour,ModelYear,Boo
kingID,CategoryName,UsabilityType,CustomerID,CheckToken) VALUES('BG2
21A','Hyundai','Tucson','Maroon',2017,'B10','SUV','Special','C9981','CT3');
```

```
INSERT INTO
Rent_Car_Under_Booking_Pickup_Dropoff(PlateNumber,Make,Model,Colour,ModelYear,Boo
kingID,CategoryName,UsabilityType,CustomerID,CheckToken) VALUES('VA6
61B','Ford','Fusion','White',2015,'B001','Sedan','Regular','C0081','CT5');
```

```
INSERT INTO
Rent_Car_Under_Booking_Pickup_Dropoff(PlateNumber,Make,Model,Colour,ModelYear,Boo
kingID,CategoryName,UsabilityType,CustomerID,CheckToken) VALUES('GA4
54B','Toyota','Corolla','Black',2018,'B0076','Sedan','Regular','C001','CT4');
```

```
INSERT INTO
Rent_Car_Under_Booking_Pickup_Dropoff(PlateNumber,Make,Model,Colour,ModelYear,Boo
kingID,CategoryName,UsabilityType,CustomerID,CheckToken) VALUES('LV5
24T','Mercedes','GLE','Black',2022,'BID1','Coupe','Regular','C09','CT1');
```

```
INSERT INTO
Rent_Car_Under_Booking_Pickup_Dropoff(PlateNumber,Make,Model,Colour,ModelYear,Boo
```

kingID,CategoryName,UsabilityType,CustomerID,CheckToken) VALUES('LA803S','Honda','CRV','Blue',2020,'B3151','SUV','Regular','C12','CT5');

Address_CustomerID

INSERT INTO Address_CustomerID(PostalCode,CustomerID,HouseNumber)
VALUES('V3A3X1','C001','7689');

INSERT INTO Address_CustomerID(PostalCode,CustomerID,HouseNumber)
VALUES('V3A3Y1','C0081','7665');

INSERT INTO Address_CustomerID(PostalCode,CustomerID,HouseNumber)
VALUES('V3A3Y2','C09','8101');

INSERT INTO Address_CustomerID(PostalCode,CustomerID,HouseNumber)
VALUES('V3A3X2','C12','7665');

INSERT INTO Address_CustomerID(PostalCode,CustomerID,HouseNumber)
VALUES('V3A3Y3','C0081','8022');

Address_PostalCode

INSERT INTO Address_PostalCode(PostalCode,City,Province)
VALUES('V5A3X1','VANCOUVER','BC');

INSERT INTO Address_PostalCode(PostalCode,City,Province)
VALUES('V5A3Y1','RICHMOND','BC');

INSERT INTO Address_PostalCode(PostalCode,City,Province)
VALUES('V5A3Y2','SURREY','BC');

INSERT INTO Address_PostalCode(PostalCode,City,Province)
VALUES('V5A3X2','VANCOUVER','BC');

INSERT INTO Address_PostalCode(PostalCode,City,Province)
VALUES('V5A3Y3','SURREY','BC');

QUERIES

Insert Query

INSERT INTO OfficeStaff (EmployeeID, ContactNumber, Email, FName, LName, DateOfBirth, Position, Department VALUES ('\$EmployeeID', '\$ContactNumber', '\$Email', '\$FName', '\$LName', '\$DateOfBirth', '\$Position', '\$Department'); (query used in the php code with the local variables to store the value of table attributes)

Update Query

```
UPDATE OfficeStaff SET EmployeeID='$id', ContactNumber='$ContactNumber',  
Email='$Email', FName= '$FName', ' LName='$LName', DateOfBirth='$DateOfBirth',  
Position='$Position', Department='$Department' (query used in the php code with the local  
variables to store the value of table attributes)
```

Delete Query

```
DELETE FROM OfficeStaff WHERE EmployeeID= 'E8'
```

Select Query

```
SELECT FName, LName, EmployeeID, Position FROM OfficeStaff  
WHERE FName ='Sanyam'
```

Projection Query

```
SELECT EmployeeID, Department, Position FROM OfficeStaff
```

Join Query

```
SELECT Help_Customer.FName,  
Help_Customer.LName,OfficeStaff.EmployeeID,OfficeStaff.Department FROM  
Help_Customer  
INNER JOIN OfficeStaff  
ON Help_Customer.EmployeeID=OfficeStaff.EmployeeID  
WHERE Help_Customer.EmployeeID='E11' or Help_Customer.EmployeeID='E13'
```

Aggregation Query

```
SELECT AVG(CostPerDay) AS AVERAGE_COST, MAX(CostPerDay) AS MAX_COST,  
CategoryName FROM Category  
GROUP by CategoryName
```

Nested-Aggregation Query

```
SELECT Month(PaymentDate) AS Month, COUNT(PaymentID) AS Num_of_Rentals
FROM Payment
WHERE Amount > ALL
(SELECT AVG(Amount)
FROM Payment
GROUP BY Month(PaymentDate))
and PaymentID IN
(SELECT PaymentID
FROM Payment
WHERE YEAR(PaymentDate)=2022 )
GROUP BY MONTH(PaymentDate);
```

Division Query

```
SELECT DISTINCT Cab.FName, Cab.LName, Cab.EmployeeID, Cab.ServiceID FROM
CabDriver_Offer AS Cab
WHERE NOT EXISTS
(SELECT ServiceLevel FROM Driving
WHERE ServiceLevel = 'L2Driver'
EXCEPT
SELECT ServiceLevel FROM Driving AS Drv
WHERE Drv.ServiceID = Cab.ServiceID ) ;
```