



Technical Test - SQL Assessment

Guidelines:

- This is an open book test. Feel free to refer to external resources, such as <http://www.w3schools.com/sql/>
- Please submit answers in word format showing your complete SQL script.
- The goal of this assessment is to showcase your thought process when reaching a solution.

QUESTIONS:

a)

A schema describing theatres, cities where they are located and shows is defined as follows:

CITY (Name, State, Country)

THEATRE (Name, City, State, Capacity)

SHOW (Title, Artist, Hall, Attendance)

Write the following queries in SQL

- Find names of artists who performed before at least 5000 people, together with cities where those performances took place.
- Find all states in Japan where Mr. X has performed.
- List all artists who never played in Delhi.
- Find the name of theatres in Tokyo whose capacity exceeds 5000.

b)

Consider the insurance database given below:

PERSON (driver-id, name, address)

CAR (license, model, year)

ACCIDENT (report-number, date, location)

OWNS (driver-id, license)

PARTICIPATION (driver-id, report-number, damage-amount)

Construct the following SQL queries for this relational database.

- Find the total number of people who owned cars that were involved in accidents in 2004.
- Find the number of accidents in which the cars belonging to “Vincent” were involved.
- Delete the Toyota belonging to “John”.
- Find the top 5 damages amount paid out last year. Show Driver info, report number and license appropriately.



c)

Consider the following tables which give details of customers, trucks and packets booked by customers, which are carried by trucks and write SQL commands to do the following tables:

CUSTOMER(c_no, c_name, c_address)

TRUCK(t_no, driver_name)

PACKET(p_no, c_no, t_no, date_of_booking, weight, destination)

Write these queries:

- i) Destinations which have received more than 10 packets.
- ii) Name of Customers who have sent at least one packet of weight more than one kg to 'SINGAPORE'.
- iii) Name of all Customers whose packets were delivered by a driver whose name is 'Mark'.
- iv) Three top customers (names) in terms of total packet weight sent by them (list is to be in descending order of total weight).
- v) Name of all Customers whose individual shipments are less than one kg.