# **SQL** Questions

Write SQL Queries for the following (answer to all questions are SQL queries only, no sentence/word/short answers).

Data in the tables are for representation of data format. Actual tables might contain many more rows of data.

### **MANUFACTURERS**

ID	NAME	COUNTRY	ESTD
1	Volkswagen	Germany	1930
2	Suzuki	Japan	1970
3	Renault	France	1960
4	Mahindra	India	1990
5	Tata	India	1980

Q.1 Write SQL command to create the table "MANUFACTURERS"

Q.2 Write 2 sample SQL queries to insert new manufacturers into the table

#### **FACTORIES**

ID	CITY	STATE	MANUF_ID	CAPACITY
1	Chennai	Tamil Nadu	4	100000
2	Gurgaon	Haryana	2	50000
3	Gurgaon	Haryana	8	60000
4	Surat	Gujarat	5	70000

Note: Each factory belongs to a manufacturer, the DB should represent that relationship The capacity is the total no of cars that can be made in a year in that factory

Q.3 Write SQL command to create table FACTORIES (given MANUFACTURERS table already exists)

Q.4 Write 2 Sample SQL queries to insert two new factories into the table

Q.5 Find out statewise capacity of manufacturing cars in India. (Result should be 2 columns – state name, and state's capacity, for all states of India).

Q.6 Which city can produce maximum cars in India?

## CAR MODELS

ID	NAME	MANUF_ID	FACT_ID	YEAR	TOTAL_MADE
1	Alto	2	6	2010	40000
2	Alto	2	5	2010	50000
3	City	7	8	2011	70000

4	Scorpio	4	11	2012	4000
		•••	•••		

#### Notes:

- Every car belongs to a manufacturer
- Every row represents a car being manufactured in a particular year in a particular factory
- A car might be made in 2 factories in a year, in which case there will be two separate entries showing how many were made in each factory
- A car being manufactured for 3 years, will have 3 rows each showing separate numbers of each year
- So, if a car is made in 3 factories, and is being made for 4 years, then that car will have 12 rows in the table.

Q.7 Write SQL query to create CAR\_MODELS table, (given MANUFACTURER and FACTORIES already exist)

Q.8 Write sample SQL query to insert any 2 cars into the table.

Q.9 Find out the best-selling car, every year from year 2010 to 2018

Result should be 3 columns – Year, Car model, Total made

2010 City 20000

2011 Alto 30000

2012 City 25000

... and so on

Q.10 Find out how much capacity of each factory was utilized in 2018. (If factory can make 10000 cars, and only 8000 were made, then 80% utilized).

Result should be 3 columns – Manufacturer, City of Factory, Utilization

Renault	Chennai	76%
Hyundai	Chennai	80%
Suzuki	Gurgaon	90%

... and so on

Q.11 Which car has sold for maximum number of years running?

Q.12 Which car has sold maximum quantity, till date?

Q.13 Delete all car models that were made prior to 2010

Q.14 Some car models have same name, even though they are made by two different manufacturers, so it is confusing. Please update the car models table so that the manufacturers' name is prepended to the model name and year is appended. (City -> Honda City 2010)