

# BUAN 6320

## Database Foundations for Business Analytics

### Assignment 9

#### Problem 1

Write a query that counts the documents from the Bikez.com database that match the followings:

- The bike should be from “Year” either “2021” or “2020”
- “Engine type” should be either “V2, four-stroke” or “Single cylinder, four-stroke”
- The “Gearbox” should be “6-speed”

The result should be 685 (assuming you have a total of 38624 documents in your database)

#### Problem 2

Write a query that counts the documents from the PakWheels database that match the followings:

- The “EngineCapacity” is “3500 cc”
- And the “BodyType” is “SUV”

**Hint:** Please note that both “EngineCapacity” and “BodyType” are sub-properties of “extraFeature” property.

The result should be 27 (assuming you have a total of 55675 documents in your database)

#### Problem 3

Write an update query that modifies the documents from Bikez.com database that match the following:

- “Compression” is “11.5:1”
- “Ignition” is “CDI”
- “Emission details” is “Euro 4”
- “Starter” is either “Kick” or “Electric”

For these documents, update the “Engine type” to “Single cylinder, two-stroke”

#### Problem 4

Write an insert query to add the following document to the Bikez.com database:

- Model: “Aprilia SX 50”
- Year: 2022
- Category: “Super”
- Price: “\$4000”
- Gearbox: “6-speed manual”
- Color options:
  - Option 1 : “Black and white”
  - Option 2 : “Blue and white”