**Q1:** Explain the purpose of the four annotations in the example above.

ANS: **Spring BootTest** tells spring boot to look for main configuration class

**AutoConfigureTestDatabase** tells application to use a test database for testing instead of the application-defined database.

**ActiveProfiles** tells which bean definition profiles should be active when loading an ApplicationContext for an integration test.

**Q2:** why have we chosen to do this via SQL, and not programmatically?

ANS: So it is easy to write direct sql query to delete the records with just minimal code. Programmatically it can take much more efforts and line of code.

**Q3:** Reflect on the advantages and disadvantages of adding functional tests to your application’s code base.

ANS: Adding functional tests ensures the proper working of all the functionality of an application. Also it helps in finding bugs early.

Disadvantages can be this testing can increase the initial development time. The developer must take the time to write and debug the test cases and write the code itself.

|  |  |
| --- | --- |
| **Q4:** What is the purpose of the setup() method and how often is it called? |  |
| ANS: The setup method will be called automatically when the test run. So here the setup method is initializing the RestClient object |  |