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 **Assignment – 3**  
**MAGENTO**

1. What is the installSchema class in Magento and what it does do?
2. What is the installData class in Magento and what it does do?
3. What is the upgradeSchema class in Magento and what it does do?
4. What is the upgradeData class in Magento and what it does do?
5. What is the db\_schema.xml file in Magento and what it does do?
6. Perform these action(s) using installSchema class:  
   A. Create table: mit\_blogger\_categories (id(int primary), category\_code(char 64), category\_name(char 64), category\_description(char 64), created\_at(timestamp), updated\_at(timestamp))  
   B. Update table: change category\_code and category\_name type from ‘char’ to ‘varchar’.  
   C. Update table: change category\_description type from ‘char’ to ‘varchar’ and change its length to 64K or more than 1000 length.  
   D. Delete a column. (category\_code)
7. Perform these action(s) using installData class:  
   A. Add new data in the ‘mit\_blogger\_categories’ table.  
   B. Update existing data of a row in the ‘mit\_blogger\_categories’ table.  
   C. Delete existing data of a row in the ‘mit\_blogger\_categories’ table.  
   D. Add multiple new data (4-5 Rows) in the ‘mit\_blogger\_categories’ table.  
   E. Update multiple existing data (4-5 Rows) in the ‘mit\_blogger\_categories’ table.  
   F. Delete existing row data (4-5 Rows) of the ‘mit\_blogger\_categories’ table.
8. Perform these action(s) using upgradeSchema class:  
   A. Create table: mit\_blogger\_post (`id` int(10) NOT NULL AUTO\_INCREMENT PRIMARY KEY, `category\_id` int(10), `title` varchar(255), `content` text, `aurthor\_firstname` varchar(64), `aurthor\_lastname` varchar(64), `created\_at`, `updated\_at`)
9. Perform these action(s) using upgradeData class:  
   A. Add new data in the ‘mit\_blogger\_post’ table.  
   B. Update existing data of a row in the ‘mit\_blogger\_post’ table.  
   C. Delete existing data of a row in the ‘mit\_blogger\_post’ table.  
   D. Add multiple new data (4-5 Rows) in the ‘mit\_blogger\_post’ table.  
   E. Update multiple existing data (4-5 Rows) in the ‘mit\_blogger\_post’ table.  
   F. Delete existing row data (4-5 Rows) of the ‘mit\_blogger\_post’ table.
10. What is the Factory Class?
11. What is the use of Factory Class?
12. Create one Block file and use FactoryClass of the model and get collection of data through Factory Class?
13. What is Plugin and What is the use of Plugin in Magento?
14. Create a Plugin to set Prefix with the Product Name?
15. Create a Plugin to set Suffix with the Category Name?
16. What is Observer and Preference?
17. Difference between Plugin and Observer?
18. Create add product to cart observer to save data into custom table?
19. Create observer after place an order and save order data into custom table?
20. Create a Plugin to set Prefix with the Product Name?
21. Create a Plugin to set Suffix with the Category Name?
22. Create Custom event into custom module like post save?

Process of creation of custom theme | Verbally

1. Add a custom CSS file for a custom theme
2. Add custom JS file for custom theme
3. Override a template file of any module in a custom theme and show a custom message
4. Override a JS file of any module in the custom theme and add console.log("-- overridden ---")
5. What is the role of view.xml in the custom theme? Explain.
6. Install any third-party theme.
7. Create a child theme of the installed third-party theme.
8. Add a custom CSS file for a child theme of a third-party theme
9. Add a custom JS file for a child theme of a third-party theme
10. Override a template file of any module in a third-party child theme and show a custom message
11. Override a JS file of any module in a third-party child theme and add console.log("-- overridden ---")