**.DAY 5 Assignment Questions**

**Practical Question**  
  
**Que 1.** Find the names of students who got GPA above the average GPA of all students (Use Having clause)

**Input Table: STUDENTDETAILS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| StudentId | StudentName | GPA | Branch | Section |
| 159103036 | Mohit Agarwal | 8.9 | CCE | A |
| 159103037 | Rohit Agarwal | 5.2 | CCE | A |
| 159103038 | Shohit Garg | 7.1 | CCE | B |
| 159103039 | Mrinal Malhotra | 7.9 | CCE | A |
| 159103040 | Mehreet Singh | 5.6 | CCE | A |
| 159103041 | Arjun Tehlan | 9.2 | CCE | B |

**Que 2.** - Count Section wise Students

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**Input Table**: STUDENTDETAILS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| StudentId | StudentName | GPA | Branch | Section |
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**Que 3.** Create a Clustered Index on Table Employee on Id Column. This table have other columns such as Name, DOB, Salary.

**Que 4.** Create a Non-Clustered Index on Employee Table for Columns Salary in ascending and Gender Descending. This table have columns such as- EmployeeId, Name, DOB, Salary, Gender.

**Database Management System – Assignments Session 2**

**Assignment 1:**

With respect to StoreFront applications identify, apply, and list the constraints you would apply on the columns for the tables created.

**Assignment 2:**

Write SQL scripts for the following:

* Display the list of products (Id, Title, Count of Categories) which fall in more than one Category.
* Display the Count of products as per the below price range:

|  |  |
| --- | --- |
| Range in Rs. | Count |
| 0 - 100 |  |
| 101 - 500 |  |
| Above 500 |  |

* Display the Categories along with number of products under each category.

**Assignment 3:**

Write SQL scripts for the following:

* Display Shopper’s information along with number of orders he/she placed during last 30 days.
* Display the top 10 Shoppers who generated maximum numbers of revenue in last 30 days.
* Display top 20 Products which are ordered most in last 60 days along with numbers.
* Display Monthly sales revenue of the StoreFront for last 6 months. It should display each month’s sale.
* Mark the products as Inactive which have not been ordered in the last 90 days.
* Given a category search keyword, display all the Products present in these category/categories.
* Display top 10 Items which were cancelled most.

**Assignment 4:**

Consider a form where providing a Zip Code populates associated City and

State.

* Create appropriate tables and relationships for the same and write SQL.

query for that returns a Resultset containing Zip Code, City Names and

States ordered by State Name and City Name.

(Create 3 tables to store State, District/City & Zip code separately)

**Assignment 5:**

* Create a view displaying the order information (Id, Title, Price, Shopper’s name, Email, Orderdate, Status) with the latest ordered items should be displayed first for last 60 days.
* Use the above view to display the Products (Items) which are in ‘shipped’ state.
* Use the above view to display the top 5 most selling products.