

Sunbeam Institute Of Technoogy,Pune and Karad

DATABASE TECHNOLOGY

Creating Tables and Indexes :

Note : use “sales” database to solve below queries.

1. Write a command that will enable a user to pull orders grouped by date out of the Orders table quickly.
2. If the Orders table has already been created, how can you force the onum field to be unique (assume all current values are unique)?
3. Create an index that would permit each salesperson to retrieve his or her orders grouped by date quickly.
4. Let us assume that each salesperson is to have only one customer of a given rating, and that this is currently the case. Enter a command that enforces it.

Views :

Note : use “sales” database to solve below questions.

1. Create a view that shows all of the customers who have the highest ratings.
2. Create a view that shows the number of salespeople in each city.
3. Create a view that shows the average and total orders for each salesperson after his or her name. Assume all names are unique.
4. Create a view that shows each salesperson with multiple customers.

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5. Create a view of the Salespeople table called Commissions. This view will include only the snum and comm fields. Through this view, someone could enter or change commissions, but only to values between .10 and .20.
6. Grant **sunbeam** user the right to insert or update the Customers table while keeping her possible rating values in the range of 100 to 500.
7. Allow **sunbeam** user to query the Customers table, but restrict his access to those customers whose rating is the lowest.

Alter Statements :

Note : use “classwork” database to solve below queries.

1. Write a SQL statement to rename the table **EMP** to **EMPLOYEE**.
2. Write a SQL statement to add a column **region** to the table **DEPT**.
3. Write a SQL statement to add a **dummy_ID** as the first column of the table **DUMMY**.
4. Write a SQL statement to add a column **position** after **grade** to the table **SALGRADE**.
5. Write a SQL statement change the data type of the column **sal** to **float** in the table **EMP**.
6. Write a SQL statement to drop the column **region** from the table **DEPT**.

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7. Write a SQL statement to change the name of the column **job** to **job_designation** from **EMP** table , keeping the data type and size same.

Note : use “sales” database to solve below queries.

8. Write a SQL statement to add a **primary key** for the columns **SNUM** in the **SALESPEOPLE** table.

9. Write a SQL statement to add a **primary key** for the columns **CNUM** in the **CUSTOMERS** table.

10. Write a SQL statement to add a **foreign key** on **SNUM** column of **CUSTOMERS** table referencing to the **primary key SNUM** of **SALESPEOPLE** table.