

Implementing Views

Sr. No.	Assignment Question																																												
1.	<p>Cosmos Electronics Ltd. employs more than 1000 workers in its units. Some of these are at junior level while some are at senior level depending upon their expertise and years of experience. Each employee is given annual leave based on the designation. The management at Cosmos Electronics Ltd. is planning to computerize their human resources department and all the data pertaining to employees will now be stored in SQL Server 2005 databases. Two of the most vital tables in the Employees database are shown below:</p> <p>➤ EmpDetails Table</p> <table><tr><th>Field Name</th><th>Data Type</th><th>Key Field</th><th>Description</th></tr><tr><td>Emp_Id</td><td>varchar(5)</td><td>Primary Key</td><td>Stores employee identification number</td></tr><tr><td>FirstName</td><td>varchar(30)</td><td></td><td>Stores first name of the employee</td></tr><tr><td>LastName</td><td>varchar(30)</td><td></td><td>Stores last name of the employee</td></tr><tr><td>Address</td><td>varchar(60)</td><td></td><td>Stores address of the employee</td></tr><tr><td>PhoneNumber</td><td>varchar(20)</td><td></td><td>Phone number of the employee, it could be landline or mobile</td></tr><tr><td>Dept_Id</td><td>varchar(4)</td><td></td><td>Stores department id of the department to which the employee belongs</td></tr><tr><td>Designation</td><td>varchar(30)</td><td></td><td>Stores designation or job role of the employee</td></tr><tr><td>Salary</td><td>money</td><td></td><td>Stores salary of the employee</td></tr><tr><td>Join_date</td><td>datetime</td><td></td><td>Stores date of joining for the employee</td></tr><tr><td>Performance_Rating</td><td>int</td><td></td><td>Stores Rating of the employee</td></tr></table>	Field Name	Data Type	Key Field	Description	Emp_Id	varchar(5)	Primary Key	Stores employee identification number	FirstName	varchar(30)		Stores first name of the employee	LastName	varchar(30)		Stores last name of the employee	Address	varchar(60)		Stores address of the employee	PhoneNumber	varchar(20)		Phone number of the employee, it could be landline or mobile	Dept_Id	varchar(4)		Stores department id of the department to which the employee belongs	Designation	varchar(30)		Stores designation or job role of the employee	Salary	money		Stores salary of the employee	Join_date	datetime		Stores date of joining for the employee	Performance_Rating	int		Stores Rating of the employee
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Table 5.1: EmpDetails Table

➤ LeaveDetails Table

Field Name	Data Type	Key Field	Description
Emp_Id	varchar(5)	Primary Key	Stores employee identification number
LeaveTaken	int		Stores the number of leaves taken by the employee
FromDate	datetime		Date when the leave started
ToDate	datetime		Date upto which leave was taken
Reason	xml		Reason for the leave

Table 5.2: LeaveDetails Table

1. Using SQL Server 2005 and Transact SQL statements, create the above tables in a database named **Employees**. Add at least 5 records to the tables.
2. Cosmos Electronics Ltd. has decided to allow the employees to login to the database management system and view information. However, at the same time, Cosmos needs to protect certain sensitive and confidential data such as salary, address and phone number of all employees from being viewed. To enable the employees to be able to see specific information, without displaying the confidential information, a view needs to be created.
3. Create a view named **Emp_Public_info** based on information from the tables **Emp_Details** and **Leave_Details** such that the view definition itself cannot be viewed at any particular point of time. The information that is to be included in the view is given below: Emp_ID, FirstName, LastName, Department, Designation, Join_Date, LeaveTaken, FromDate, ToDate, Reason. Note that the reason for leave will be stored in XML format.
4. Test the view by displaying information from it. Display all the records in the view. Display only the top 3 records in the view alphabetically sorted by FirstName.
5. Change the view such that the Join_Date column is no longer visible in the view.
6. Finally, assuming that the view is not proving useful and many employees have not used it, it has been decided by Cosmos to remove the view. Write the statements to remove the view.
7. Write statements to check if the original tables still exist or have been deleted upon deletion of the view.