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|  | | Lab 2 – Stored Procedures | | | | |  | |
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|  | | | | Advanced Database Topics(COMP-8157) |  | | | |
|  | | | | **\_\_\_** Kuldeep Padhiyar (ID: 110049895) **\_\_\_** Submitted to: Dr Kalyani Selvarajah |  | | | |
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### SQL Query

-- Qestion-1

CREATE OR ALTER PROCEDURE Application.uspViewEmployees

AS

SELECT PersonID, FullName, IsEmployee, IsSalesperson

FROM Application.People

WHERE IsEmployee = 1;

GO

EXECUTE Application.uspViewEmployees;

GO

-- This is abstraction between the user and the database. And helps in increasing security.

CREATE OR ALTER PROCEDURE Application.uspViewEmployees

AS

SELECT PersonID AS 'ID Number',

 FullName AS 'Name',

 'Employee' AS Status,

 CASE WHEN IsSalesperson = 1 THEN 'Salesperson'

 WHEN IsSalesperson = 0 THEN 'Not Salesperson'

 END AS Position

FROM Application.People

WHERE IsEmployee = 1;

GO

-- Better Performance with cache, and allows for efficient Scalabilty

CREATE OR ALTER PROCEDURE Application.uspViewData

AS

BEGIN

SELECT TOP 1 \* FROM Application.People;

SELECT TOP 1 \* FROM Sales.Customers;

SELECT TOP 1 \* FROM Warehouse.Colors;

END

GO

EXECUTE Application.uspViewData;

GO

-- Qestion-2

SELECT \* FROM Warehouse.Colors ORDER BY ColorID DESC;

GO

-- Color: input parameter for stored procedure.

-- ColorID: max colorID + 1.

CREATE OR ALTER PROCEDURE Warehouse.uspInsertColor (@Color AS nvarchar(100))

AS

DECLARE @ColorID INT

SET @ColorID = (SELECT MAX(ColorID) FROM Warehouse.Colors)+1;

INSERT INTO Warehouse.Colors (ColorID, ColorName, LastEditedBy)

VALUES (@ColorID, @Color, 1);

SELECT \* FROM Warehouse.Colors

WHERE ColorID = @ColorID

ORDER BY ColorID DESC;

GO

EXECUTE Warehouse.uspInsertColor @Color='Periwinkle Blue';

GO

SELECT \* from Warehouse.Colors Order By ColorID desc;

GO

CREATE OR ALTER PROCEDURE Warehouse.upsRemoveLastColor

AS

DELETE FROM Warehouse.Colors where ColorID=(SELECT MAX(ColorID) FROM Warehouse.Colors);

GO

EXECUTE Warehouse.upsRemoveLastColor;

GO

SELECT \* from Warehouse.Colors Order By ColorID desc;

GO

-- Qestion-3

CREATE OR ALTER PROCEDURE Application.uspSimpleProcedure (@OutputMessage AS

nvarchar(200) OUTPUT)

AS

SET @OutputMessage = 'This message was returned by the stored procedure on ' +

FORMAT(GETDATE(), 'd');

GO

DECLARE @MyLocalMessage nvarchar(200);

EXEC Application.uspSimpleProcedure

 @OutputMessage = @MyLocalMessage OUTPUT;

PRINT @MyLocalMessage;

GO

### Question 1 Output

### Question 2 Output

### Question 3 Output

