ASSIGNMENT 8

Write the following queries with dynamic SQL to:

1. **Return top x rows from any table ABC based on the value of x and ABC provided.**

    Ans:

    ```
    DECLARE @TableName VARCHAR(50),
            @TopRows INT,
            @SQL Varchar(200);


    SELECT @TableName = 'Hotel',
           @TopRows = 4;


    SELECT @SQL = 'SELECT TOP '+CAST(@TopRows AS VARCHAR(20))+'* FROM
    dbo.['+@TableName+']'


    EXEC(@SQL);
    ```

2. **Return all rows from the table ABC ordering by column x in y order based on the value of x, y and ABC provided.**

Ans:

```sql
DECLARE @TableName VARCHAR(50),
           @x VARCHAR(100),
           @y VARCHAR(100),
           @SQL VARCHAR(200);


SELECT @TableName = 'Customer',
       @x = 'Name',
       @y = 'Desc';


SELECT @SQL = 'SELECT * FROM dbo.['+@TableName+']
               ORDER BY '+@x+' '+@y+'';
PRINT @SQL


EXEC (@SQL);
```

3. **Return data from hotel table on the basis of type of data expected. Here, if the return type is 'AllDetail' then query should return all the columns while 'Basic' returns only HotelId and HotelName.**

   Ans:

```sql
DECLARE @TableName VARCHAR(100),
        @ReturnType VARCHAR(50),
        @SQL VARCHAR(200);




SELECT @TableName = 'Hotel',
       @ReturnType = 'Basics';




SELECT @SQL = CASE WHEN @ReturnType = 'AllDetails' THEN
                   'SELECT * FROM dbo.['+@TableName+'] as h'
              ELSE
   'SELECT h.HotelId, h.HotelName FROM dbo.['+@TableName+'] as h'
              END



PRINT(@SQL)
EXEC(@SQL);
```

Using If, Else If

Ans:

```sql
DECLARE @TableName VARCHAR(100),
        @ReturnType VARCHAR(50),
        @SQL VARCHAR(200);



SELECT @TableName = 'Hotel',
       @ReturnType = 'AllDetails';




IF @ReturnType = 'AllDetails' SELECT @SQL= 'SELECT * FROM dbo.['+@TableName+'] as h'
ELSE IF @ReturnType = 'Basics' SELECT @SQL='SELECT h.'+@TableName+'Id, h.'+@TableName+'Name FROM dbo.['+@TableName+'] as h'



PRINT(@SQL)
EXEC(@SQL);
```

4. **Return all the x type of PrimayKey Id records from ABC table where x might be either odd or even.**

   Ans:

   ```sql
   DECLARE @TableName VARCHAR(100),
           @Status VARCHAR(20),
           @SQL VARCHAR(200);


   SELECT @TableName = 'Customer',
          @Status = 'Odd';


   IF (@Status = 'Even')
   SELECT @SQL = 'SELECT * FROM dbo.['+@TableName+'] AS c WHERE
   c.'+@TableName+'Id % 2 = 0'
   ELSE IF
   (@Status = 'Odd')
   SELECT @SQL = 'SELECT * FROM dbo.['+@TableName+'] AS c Where c.CustomerId
   % 2 <> 0'


   PRINT(@SQL)
   EXEC(@SQL);
   ```