Write a Stored Procedure that takes table name as input parameter and finds out the name of all the columns in table.

**Constraint:** You cannot use sp\_columns statement

Stored Procedure

create procedure getColumnNames

@tablename varchar(50)

as

select column\_name from INFORMATION\_SCHEMA.COLUMNS where table\_name = @tablename

Output

Order Table

First fetching whole table

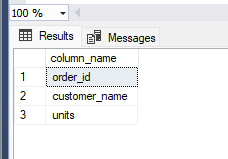
Used query: select \* from Orders

A screenshot of a computer

Description automatically generated

Using Stored Procedure

Used Query: exec getColumnNames @tablename='Orders'



**Task 3**

create procedure allotelectiveandtracknonallocated

as

declare @Student\_id int,@Student\_name varchar(50),@GPA decimal(2,1),@Branch varchar(3),@Section char,@rem int,@preference int,@increament int=1,@subject\_id varchar(6),@check int

declare detailsCursor cursor for

select Student\_id,Student\_name,GPA,Branch,Section from student\_Details order by GPA desc

open detailsCursor

fetch next from detailsCursor into @Student\_id,@Student\_name,@GPA,@Branch,@Section

while @@FETCH\_STATUS=0

begin

set @preference=(select count(SubjectId) from SubjectDetails)

set @increament=1

while @increament<= @preference

begin

set @subject\_id=(select SubjectId from StudentPreference where StudentId=@Student\_id and Preference=@increament)

set @rem = (select RemainingSeats from SubjectDetails where SubjectId=@subject\_id)

if (@rem>0)

begin

update SubjectDetails set RemainingSeats=RemainingSeats-1 where SubjectId =@subject\_id

set @increament=@preference+1

insert into allotments values(@subject\_id,@Student\_id)

end

else

begin

set @increament=@increament+1

end

end

set @check=(select count(@Student\_id) from allotments)

if(@check=0)

begin

insert into unallotedStudents values(@Student\_id)

end

fetch next from detailsCursor into @Student\_id,@Student\_name,@GPA,@Branch,@Section

end

close detailsCursor

deallocate detailsCursor

CREATE procedure [dbo].[trackAllocation]

as

declare @Student\_id varchar(9),@Subject\_id varchar(9),@check int=0,@checkId varchar

declare allocatedCursor cursor for

select StudentId,SubjectId from SubjectRequest

open allocatedCursor

fetch next from allocatedCursor into @Student\_id,@Subject\_id

while @@FETCH\_STATUS=0

begin

set @check= (select count(StudentId) from SubjectAllotments )

if (@check=0)

begin

insert into SubjectAllotments values(@Student\_id,@Subject\_id,1)

end

else

begin

set @checkId=(select StudentId from SubjectAllotments where Is\_valid=1)

if(not @checkId=@Student\_id)

begin

update SubjectAllotments set Is\_valid=0

insert into SubjectAllotments values(@Student\_id,@Subject\_id,1)

end

end

fetch next from allocatedCursor into @Student\_id,@Subject\_id

end

close allocatedCursor

deallocate allocatedCursor

delete from SubjectRequest