Assignment 08

You must create your own functions (user-defined)

1. Display code description that has crime code from 302 to 305, display both columns

CREATE FUNCTION fnCrimeCode(@begin AS int, @end AS int)

RETURNS

TABLE AS

RETURN(SELECT crime\_code, code\_description

FROM crime\_codes

WHERE crime\_code BETWEEN @begin AND @end);

SELECT \*

FROM fnCrimeCode(302,305);

Graphical user interface, application

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Graphical user interface, application

Description automatically generated

1. Display the lowest fine amount charged to a crime. Give the column an alias name “Lowest Fine Amount”

CREATE FUNCTION fnLowestFineAmt()

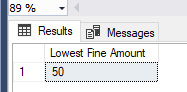
RETURNS TABLE AS

RETURN(SELECT MIN(fine\_amount) AS "Lowest Fine Amount"

FROM crime\_charges);

SELECT \*

FROM fnLowestFineAmt();



Graphical user interface, application

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1. Write a query to return the current date along with time in MS SQL Server.

CREATE FUNCTION fnCurrentTime()

RETURNS TABLE AS

RETURN(SELECT CURRENT\_TIMESTAMP AS 'System date and time');

SELECT \*

FROM fnCurrentTime();

Graphical user interface, text, application, email

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Graphical user interface, application

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1. Add 10 days to the pay due date of the crime\_charges table then display the result, name the column New\_Due\_date.

CREATE FUNCTION fnAdd10Days(@daysToAdd int)

RETURNS

TABLE AS

RETURN

(SELECT pay\_due\_date, DATEADD(day, @daysToAdd, pay\_due\_date) AS 'New\_Due\_date'

FROM crime\_charges);

SELECT \*

FROM fnAdd10Days(10)

Graphical user interface, table

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A picture containing table

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1. Display crime id and calculate how many days between filing and hearing dates, name this column “Days to Hearing”

CREATE FUNCTION fnDaysToHearing()

RETURNS TABLE AS

RETURN(SELECT crime\_id, DATEDIFF(day, date\_charged, hearing\_date) AS 'Days to Hearing'

FROM crimes);

SELECT \*

FROM fnDaysToHearing();

Table

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A picture containing graphical user interface

Description automatically generated

1. Display officer id along with their last names and the last five characters of their badges.

CREATE FUNCTION fnDisplayOfficerInfo()

RETURNS TABLE AS

RETURN(SELECT officer\_id, last, RIGHT(badge, 5) AS 'Last\_5\_Badge'

FROM officers);

SELECT \*

FROM fnDisplayOfficerInfo();

Table

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Table

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1. Write a query to display the probation officers’ id and their first and last names separated by a comma

CREATE FUNCTION fnDisplayProbOfficerInfo()

RETURNS TABLE AS

RETURN(SELECT prob\_id, CONCAT(first, ', ' , last) AS 'Officers\_Full\_Name'

FROM prob\_officers);

SELECT \*

FROM fnDisplayProbOfficerInfo();

Graphical user interface, application, table

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A picture containing table

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