



**Loughborough
University**

Loughborough Business School

**Module Title: Skills for consulting
Projects- 23BSP410**

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Submission Date: 9th January 2024

Sub ChangeDriver()

Functionality:

- It modifies the driver assigned to a certain trip.
- It selects the driver and trip IDs based on user input.

Logic Flow:

- *Initialization of the Worksheet:* The worksheets "Trips" and "Drivers" are referred to.
- *User Input:* Collects the user's Driver ID and Trip ID.
- *Driver Verification:* Determines if the selected driver exists and whether they are currently assigned to a trip.
- *Driver Allocation:* If the driver is available, the code adds the new driver ID to the "Trips" page for the selected trip.

Notes and potential improvements:

- A message box appears indicating whether the procedure was successful.

Sub AddTrip()

Functionality:

- It generates and assigns a new trip with a driver and vehicle that is available.

Logic Flow:

- *Worksheet Initialization:* Initializes references to multiple worksheets such as "Trips", "Drivers", and "Vehicles", etc.
- *Recognize New IDs:* The new trip ID is calculated based on the final row of the "Trips" sheet.
- *Locate Available Resources:* Identifies a driver and vehicle that are not presently assigned to a trip.
- *Update Sheets:* The new trip is added to the "Trips" sheet, and the "Allocations" page is updated with the new customer's distribution over all trips.

Sub TripReport()

The goal is to compile a thorough trip report that includes information on vehicles, drivers, customers, and products.

Logic Flow:

- *Worksheet References:* Creates references to various sheets such as Trips, Drivers, Vehicles, etc.
- *Report Initialization:* This function generates a new sheet for the report and configures the headers.

- *Data Compilation*: Iterates through trips, collecting and combining extensive information about linked drivers, vehicles, customers, and items.
- *Populate Report*: Gathers data and populates the report sheet.
- *Completion Message*: Notifies the user that the report has been successfully created.