**BỘ MÔN HỆ THỐNG THÔNG TIN – KHOA CÔNG NGHỆ THÔNG TIN**

**ĐẠI HỌC KHOA HỌC TỰ NHIÊN THÀNH PHỐ HỒ CHÍ MINH, ĐẠI HỌC QUỐC GIA TP HCM**

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Nhóm Thực Hiện: TTKD-09

Đồ án môn học – Hệ Thống Thông Tin Phục Vụ Trí Tuệ Kinh Doanh

HỌC KỲ I – NĂM HỌC 2021-2022

**Hệ thống thông tin phục vụ trí tuệ kinh doanh**

**BẢNG THÔNG TIN CHI TIẾT NHÓM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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| 18120418 - Phạm Minh Khoa | * Mô tả Dữ liệu * ETL từ source vào stage, Phân Tích Dữ liệu. | 10/10 |
| 18120196 - Nguyễn Đình Lộc | * Mô tả Dữ liệu * ETL từ source vào stage, Phân Tích Dữ liệu. | 10/10 |

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**YÊU CẦU ĐỒ ÁN- BÀI TẬP**

# Yêu cầu của Đồ án/Bài tập:

* **G3.3** Thiết kế lược đồ chuẩn hoá, đa chiều (sao, bông tuyết) dựa vào dữ liệu hệ thống tác vụ và yêu cầu phân tích từ tình huống cho trước
* **G5.1** Triển khai quy trình ETL để rút trích dữ liệu từ nhiều nguồn, biến đổi, làm sạch dữ liệu, nạp dữ liệu vào KDL sử dụng công cụ SSIS
* **G5.2** Xây dựng KDL đa chiều sử dụng công cụ SSAS và giải thích được lựa chọn phép toán OLAP phù hợp đối với 1 số yêu cầu phân tích.
* **G5.3** Sử dụng một số công cụ biểu diễn dữ liệu (SSRS, powerBI, excel...) để biểu diễn kết quả phân tích, khai thác được (report, dashboard...)
* **G5.4** Sử dụng SSAS và áp dụng các kỹ thuật mining tích hợp để thực hiện khai thác dữ liệu từ KDL xây dựng được.

# Kết quả

## Mô tả dữ liệu:

|  |  |  |
| --- | --- | --- |
| **STT** | **Thuộc Tính** | **Mô Tả** |
| 1 | **Local\_Authority\_(District)** | * Quận (huyện) chính quyền địa phương, mô tả khu vực địa lý. Là quận(huyện) đã xảy ra tai nạn. * Trong dataset chứa 416 quận (huyện). |
| 2 | **Date** | * Ngày đã xảy ra tai nạn. * Trong dataset có format là dd-mm-yy. |
| 3 | **Time** | * Thời gian đã xảy ra tai nan. Trong dataset có format là hh:mm(24h). |
| 4 | **Road\_Type** | * Loại đường tại vị trí xảy ra tai nạn. * Trong dataset có kiểu là interger trong khoảng(1-9) |
| 5 | **Speed Limit** | * Tốc độ giới hạn. Tốc độ tối đa khi lưu thông trên đoạn đường cụ thể (khoảng 30-70 phụ thuộc vào loại đường) |
| 6 | **Accident\_Index** | * Mã số vụ tai nạn. Mỗi vụ tai nạn có mã số riêng để phân biệt và thuận tiện cho việc truy vấn. * Trong dataset tất cả Accident\_Index có kiểu dữ liệu string (không có giá trị trùng lắp). |
| 7 | **LSOA\_of\_Accident\_Location** | * Mã LSOA nơi xảy ra tai nạn. |
| 8 | **Urban\_or\_Rural\_Area** | * Xác định nơi xảy ra tai nạn thuộc thành thị hay là nông thôn. * Trong dataset có kiểu dữ liệu là interger (giá trị 1 hoặc 2) |
| 9 | **Casualty\_Class** | * Có 3 loại lớp người thương vong: Người lái hoặc người cưỡi(1-Driver or rider), Hành khách(2-Passenger), Người đi bộ (3-Pedestrian). * 3 giá trị. |
| 10 | **Sex\_of\_Casualty** | * Giới tính của người bị tai nạn * Có 2 loại giới tính 1, 2. * Nếu không xác định được thì -1. |
| 11 | **Age\_of\_Casualty** | * Tuổi của người thương vong. * Từ 1 tới 104 tuổi. * Nếu không xác định được là -1. |
| 12 | **Casualty\_Severity** | * Mưc độ thương vong của người tai nạn. * Có 3 loại mức độ: Chết(1-Fatal), Nguy hiểm(2-Serious), Nhẹ(3-Slight) |
| 13 | **Age\_Band\_of\_Casualty** | * Nhóm tuổi của nạn nhân trong tai nạn * Có 12 nhóm tuổi.. * Nếu không có data tuổi thì giá trị là -1 |
| 14 | **Journey\_Purpose\_of\_Driver** | * Mục đích hành trình của tài xế .. * Có 7 mục đích. * Nếu dữ liệu bị mất thì giá trị là -1. |
| 15 | **Vehicle\_Type** | * Loại xe . * Có tất cả 21 loại xe. * Nếu dữ liệu bị mất thì giá trị là -1 |

## II. Phân tích dữ liệu:

1. Local\_Authority\_(District):

* **Column Null Ratio Profile**: 0% giá trị rỗng

Graphical user interface, application

Description automatically generated

* **Number of Distinct Values**: 380 giá trị riêng biệt trong bảng Accidents, trong khi đó bảng Local\_Authority\_(District) có 416 gái trị riêng biệt.

Ảnh có chứa bàn

Mô tả được tạo tự động

Ảnh có chứa văn bản

Mô tả được tạo tự động

* **Column Statistics Profile**: các giá trị từ 1 đến 941, trong khi đó bảng Local\_Authority\_(District) cũng có các giá trị từ 1 đến 941.

A picture containing timeline

Description automatically generated

Ảnh có chứa bàn

Mô tả được tạo tự động

1. Date:

* **Column Null Ratio Profile**: 0% giá trị rỗng

Graphical user interface, application

Description automatically generated

* **Column Statistics Profile**: các giá trị từ 1/1/2011 đến 31/12/2014

**Graphical user interface

Description automatically generated with medium confidence**

* **Number of Distinct Values**: 1461 giá trị riêng biệt trong bảng Accidents (4 năm có 1461 ngày)

Ảnh có chứa bàn

Mô tả được tạo tự động

1. Time:

* **Column Null Ratio Profile**: 0.0043% giá trị rỗng

Graphical user interface, application

Description automatically generated

* **Column Statistics Profile**: các giá trị từ 00:01 đến 23:59

Graphical user interface, application

Description automatically generated

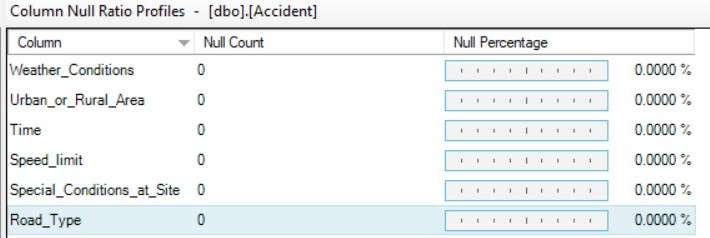
* **Number of Distinct Values**: 1461 giá trị riêng biệt.

Ảnh có chứa bàn

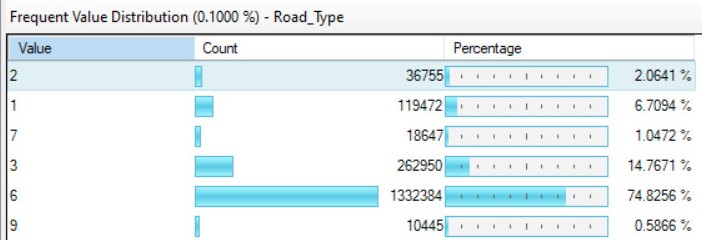
Mô tả được tạo tự động

1. Road\_Type:

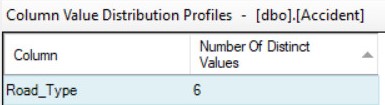
* **Column Null Ratio Profile**: 0% giá trị rỗng



* **Frequent Value Distribution**: các giá trị từ 1 đến 9

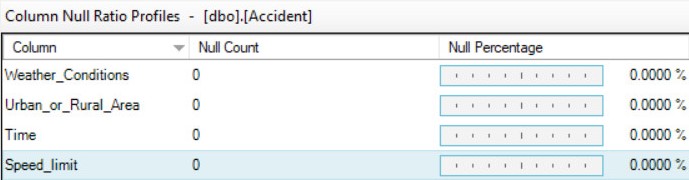


* **Number of Distinct Values**: 6 giá trị riêng biệt trong bảng Accidents.



1. Speed Limit:

* **Column Null Ratio Profile**: 0% giá trị rỗng



* **Frequent Value Distribution**: các giá trị [20,30,40,50,60,70].![Graphical user interface, application

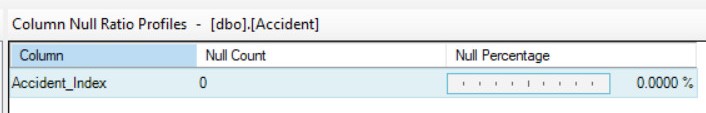
  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SWuRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEwOjIyIDE1OjM5OjAxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM2MQAAkpIAAgAAAAM2MQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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cGCAwKDAwLCgsLDQ4SEA0OEQ4LCxAWEBETFBUVFQwPFxgWFBgSFBUU/9sAQwEDBAQFBAUJBQUJFA0LDRQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQU/8AAEQgBBgLUAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A/RX4lf8AIyeBv+wjN/6Sy11OluVgIz/F/hXLfEr/AJGTwN/2EZv/AEllrdaZoNLunQ4dFZgR1GB1x3qaklCLk+iYJXdjY80+p/OjzT6n86+Lv2V/jFp/ibR7XxBr/wAe9Q8TeIYdPlvdR8HtJYFYAoy58uOBZfl7fPXs9r+1T4PvfCdnr9vZ6/cW19MItPt4tIlNxqB2h2NvH1kVQfmK5Aww7VpKPL/XnYpxak49m19257V5p9T+dHmn1P515FqH7S3hGx8P6NqPk6xcXWrSSRW2j2+nSSaiGQDzN1uPmGzcu703L6ineGv2mvBHi2HR5dOuruRdW1WfRrZXtmU/aYRIzq3PAxE/PtSScm0iel/60vf8n9zPW/NPqfzo80+p/OvMNY/aC8I6LB4mee6uWk8P3q6dcwRQFpJbl40dIoV6yMwkXCjqTjFY19+1V4K0nw5a6vqMWtaZ9o1EaWmn32myQ3guGR3VTC3zDcI22nuelLdXXl+NrffdfehuLW/n+Cu/w1PaPNPqfzo80+p/OvmP4kftnadofgNdb8NaHrV9fwa5a6Pf6be6POtxaeY8e4PEMMjmNwUz1JHBzXoPxa8Ya6vwXl8UeGxfabqNukV79lmt/LnMYOHjeNwSOD6Z4zQ9I872ul99nf0s7+gWd0lu7/hpb79D1vzT6n86PNPqfzrxHWPixeX3xCsG0hr+78Pabo39rX1tpdr9pmuWkAEUQQDJO1xJhcH5fSuc8eftFJ4l8IaVf+ELnUdFvIfFdjpGpWmpWRt7qJXYM0bxSKWUMjLzjvVKLclHre3p73Lr8yU7q62/4F/yPpHzT6n86PNPqfzrzif46eFrPw34i1uae5FhoGoHTL9/s53LOJVjIUfxDcw5rN8R/tH+E/DfiQaJJHq19NH5QvLrT7CSe2sDIFK/aZF4i+Vg3PQEGpXvNJdf+H/Joppq7a2/Tc9Z80+p/OjzT6n868O/af1/XrPwp4TtvDXiO78Mz6z4gtbCTUtOSJplheOUsF81HX+Efwn61zVv4k8T/CPxdrvg/wAVeN9S8QaFPoFxrFl4guLaH+1LUxj94CI41ibA3Ff3fUKDmpTum9t/nZJv8H17D5X7ttb2/F2X4n0t5p9T+dHmn1P5145pvx/8P202haJaR+JfFV7dWMF011ZaU05jikyFkuGjULGSVPYYrj/AP7YFnqmk/EDV/FGhazomleGNTkthcPpE8amITLGisW6ykuMqMY5445rq12v+Dt+bJjeSTXVpfft+R9J+afU/nR5p9T+dfNvxG+OEU3hfxZquhaz4h0XWY/B93qtlpd9p6wRRhPNCXIDxltxZMgZKldpxzW58Kv2nPDniyx0vT7uXUk1WTS2v0u7yweGDUEjUea9u/CyAFhnb03DPsd76Nf8AB/8AkX/VxtWSl0f/AAP/AJJHu3mn1P50eafU/nXls37QnhRfDPhTW4Xvrm18UBv7MjhtHeaYiB5tpjAyCVQ8dc4GOa8x+Hn7TK/E74f6drOujxD4LuBr6WAktdKaKK7JnZI4gZQ+5SAA5XkHOCKpRbk49rfi7A1ypN9f+D/kz6g80+p/OjzT6n868c1r9qDwbofiW50iZNXnhsrlbO91i2095dOtJi2PLluB8iMD8pBPU1U8Xfta+BfBmva1pN2NYu59EMZ1ObT9Nkngs0eNZFlkdfux7XHznjg1K961uv8AwP8ANBZ6rse3eafU/nR5p9T+dcT4+8fW/hT4b6l4pikElvDaieF+obfgIffJYfnXiV7/AMLG8TXUHhuLx5qWg6ppWhnWry8tIbcm5u2IK27b4mHkDdj5QH4GXzmk3a9+n+Tb+5L+rgveSa67fgv/AG5H1H5p9T+dHmn1P51558P/ABZq/jz4T6dq9pLaw63c2zoJLmMmHzkZoyzKpB2lkJwCD7145o/xO8b2Hwn8WrqOuJf+KV8VXGh2moRQKiQL54UFEP8AdTcV3bucZzVSTjOVPqrL1baX5tExkpQVTo/wVm7/AHI+pvNPqfzo80+p/OvkjVvGnjrwJrV98MZPGl/rWqahd2a2HiS8hgF7bW07pHKSEjWIyLmQqSmOFyG5p7+N/G1jrU/wkfxjfz60+qQxp4rMMAvUspEfnHl+V5oaPr5eMH7uaF7yvH+npdfLmV/wuJyUXaX9aN/oz6080+p/OjzT6n868j+BXiDXZYPE3hvxDq0mvan4dv2tRqk8apJcxuC8TOFCrv2bd21QM9hxXkuh/Eb4g+E/HF9cavJ4s1EXEk1q2latp8dvpiTsSLRLGcRhpN+Pm3O2D6UtHJJa3V181deepXRt9Hb8Wn91j6280+p/OjzT6n868Q8bap4q+Gfgjw74iu/EkuqyadcQprERjjWK6SVljJGFypV3XHPqCOleyrMvlq5YbTyCT1B6fnR0v52/BP8AUV9vNX/r+u3cteafU/nR5p9T+dY3iK8vLXQb640yJbu/SCRreLkiRwuQOD/Wvnb4B/EC5utH1fxd4g+Juqa1f6dYSXPiPwhfQWy/2LKql5EjjjiWVdpUqN7PxnPODSTV3d2sr/193otL7lWdlbW7t/X9a9D6i80+p/OjzT6n868f8DftPeC/iBren6dpzanAuowNcWF9fWDw2t4iDL+TKx2yFcgHHQ9af4a/aX8HeKNZks7Y6nb2nlySwaxeWTQ6ddJHyxguD8snGWGOoBPrT8n/AF/Vn9wvP+tT13zT6n86PNPqfzryLw3+0v4O8SNfsf7U0ewtbWS8XU9WsHtbS5gQEtLDK/yyKApbI4wM9K4Sz/aQPjr49eANG0F9X0vRb6w1G4urPVNONt9rCNbiKVC4yyDc/K8c96cU5SUbb/5N/o/mPu30/wCH/VfefTHmn1P50eafU/nXkf7THjDV/BHwrm1XQ79tP1BdT06ATqqt8kl7DG4wwI+ZGYdP4qxF+P3hP4f2/ifUNe8UateW9nq1vp9yt3aoI7KeSGNlji2opKEMGLMWwWIzjilH3k320/L/AOSRXK7J9/0Pd/NPqfzo80+p/OvBpP2xPBCRX+dP8TG708hr/T10WY3VnEek8sQG5Iv9s8c1nfFz9obT/Aul6t4m0PUtV1y8Xwp/bdhotvZefYvG27y7hyi+YBkfN82Aozx1pN2V3t/wG/0/qzFCLnLkW/8AwbfqfRXmn1P50eafU/nXEfCP4gP8TPAOl+IJNNvtJluowXttQtHtnDYBJCPztOeDXY7/AKVcouEnF9DOMlJKSJvNPqfzo80+p/Ood/0o3/SpKJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86PNPqfzqHf9KN/wBKAJvNPqfzo80+p/Ood/0o3/SgCbzT6n86Kh3/AEooA5D4lf8AIyeBv+wjN/6Sy1tPG1xp9xCu3dIjKM+pHGfbNYvxJ/5GXwN/2EZv/SWWtqNiq4zjn1pSipR5X1BaanlPwt+D+oeC/wBnuHwXdrp515dKlsmuLfJjMjIVB3FQ2M+1ee/ET9l7VfE3wu+GOnjTfD/iLWPB6Isuj61I6afe5jEbgyKjMpHzFTsPPavpvzj6n86PM9z+lVJuTcurs/uvb82XzPX5/wDk2/8AXQ+bdP8Agz448H2/hPXfB3hDwZ4b1nSvtdtceG4NRm/s9oZ/KLSrceRuEimLGPLwcjmuD+GHw98YeLPBc2raQulXXjDw3491W/FneTvBZzM008Ui+YqMwAWRiDsOcDpX2d5n1/Sqmn6bY6Qsq2NnBZLNK00i28Sxh5GO5nOByxJJJPJJoTad/u8tU/uf69ifscn9W5ZR/KX4Hytrn7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* **Number of Distinct Values**: 9 giá trị riêng biệt trong bảng Accidents.

![Table

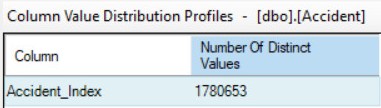
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1. Accident\_Index:

* **Column Null Ratio Profile**: 0% giá trị rỗng. Vì là key của bảng Accident.

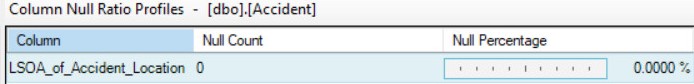


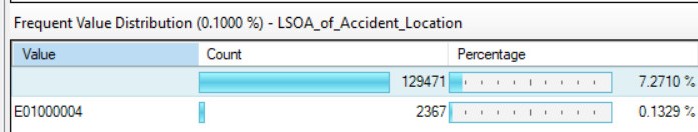
* **Number of Distinct Values**: 1780653 giá trị bằng số lượng dữ liệu có trong bảng Accident.

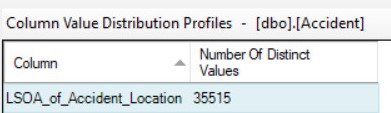


1. LSOA\_of\_Accident\_Location:

* **Column Null Ratio Profile**: 0% giá trị rỗng

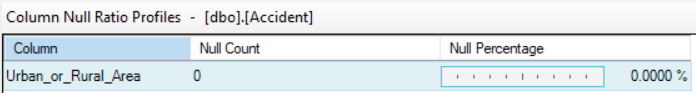


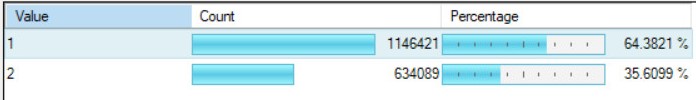
* **Frequent Value Distribution**: các giá trị 0 hoặc E01000004.
* **Number of Distinct Values**: 35515 giá trị riêng biệt trong bảng Accidents.

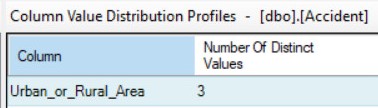


1. Urban\_or\_Rural\_Area

* **Column Null Ratio Profile**: 0% giá trị rỗng



* **Frequent Value Distribution**: các giá trị 1 hoặc 2.
* **Number of Distinct Values**: 3 giá trị riêng biệt trong bảng Accidents.



1. Casualty\_Class

* **Column Null Ratio Profiles:** Khảo sát bảng CasualtiesDB thì không có null.



* **Min-Max Value:** min=1, max=3



1. Sex\_of\_Casualty

* **Column Null Ratio Profiles:** Khảo sát bảng CasualtiesDB thì không có null:



* **Min-Max Value:** min=-1, max=2



1. Age\_of\_Casualty

* **Column Null Ratio Profiles:** Khảo sát bảng CasualtiesDB thì không có null.



* **Min-Max Value:** min=-1, max=103



1. Casualty\_Severity

* **Column Null Ratio Profiles:** Khảo sát bảng CasualtiesDB thì không có null.



* **Min-Max Value:** min=1, max=3



1. Age\_Band\_of\_Casualty:

* **Column Null Ratio Profile**: 0% giá trị rỗng

Graphical user interface, text, application

Description automatically generated

* **Number of Distinct Values**: có 12 giá trị riêng biệt

Graphical user interface, application

Description automatically generated

* **Column Statistics Profile**: giá trị từ -1 đến 11

Graphical user interface, application, Word

Description automatically generated

* **Frequent Value Distribution**: tỉ lệ xuất hiện của các giá trị

Chart, bar chart

Description automatically generated

1. Journey Purpose of Driver:

* **Column Null Ratio Profile**: 0% giá trị rỗng

Graphical user interface

Description automatically generated with medium confidence

* **Number of Distinct Values**: có 7 giá trị riêng biệt

Graphical user interface

Description automatically generated

* **Column Statistics Profile**: giá trị từ -1 đến 6



* **Frequent Value Distribution**: tỉ lệ xuất hiện của các giá trị

Graphical user interface, application

Description automatically generated

1. Vehicle\_Type:

* **Column Null Ratio Profile**: 0% giá trị rỗng



* **Number of Distinct Values**: có 21 giá trị riêng biệt

Graphical user interface, text, application

Description automatically generated

* **Column Statistics Profile**: giá trị từ -1 đến 98

Graphical user interface, application, table

Description automatically generated

* **Frequent** **Value Distribution**: tỉ lệ xuất hiện của các giá trị

Table

Description automatically generated

## III. Source vào Stage:

- Tạo TH\_STAGE trong cơ sở dữ liệu.

- Source là gồm 5 flat file: Accident, Casualties, Vehicle, Postcode, LSOA.

- Mỗi lần extract cần truncate các bảng trong Stage trước.

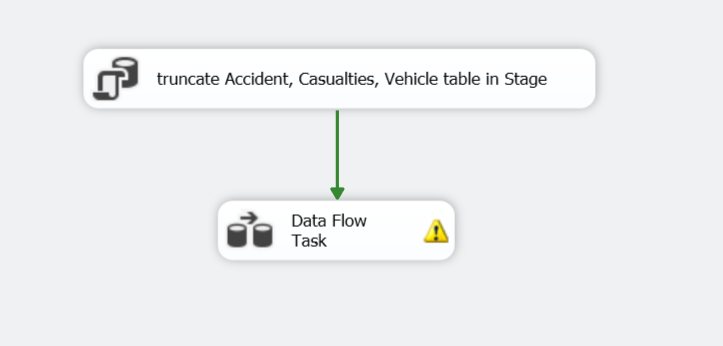
- Những flat file không có cột ngày (chỉ có bảng accident có 1 thuộc tính ngày) nên việc thiết lập LSET hay CET là bất khả thi 🡪 chỉ có thể extract toàn bộ dữ liệu trong 1 lần.

- Ở bước này chỉ extract lấy những thuộc tính cần và dữ liệu từ flat file, chưa transform dữ liệu. Qua bước Stage vào NDS chúng ta sẽ xữ lý dữ liệu. Vì mỗi lần extract từ flat file ta lấy tất cả việc xử lý (lặp lại) ở bước này là tốn chi phí hơn so với xử lý ở Stage vào NDS.

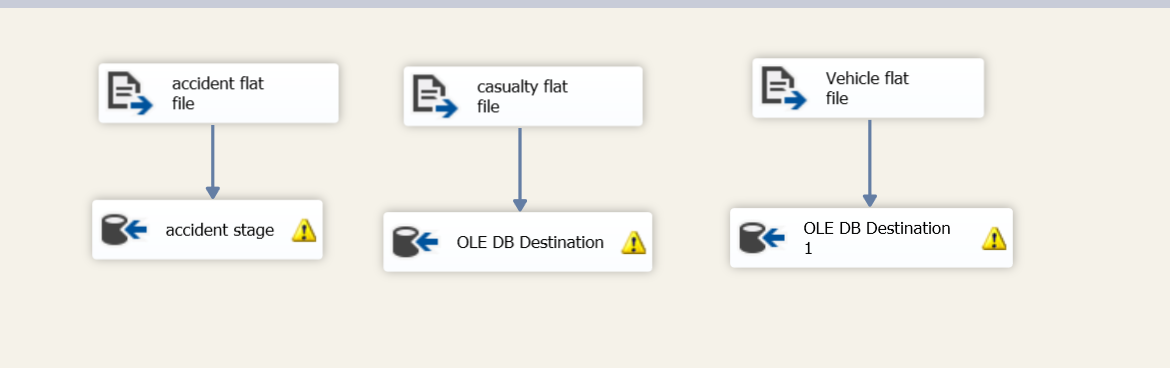
- Postcode có thuộc tính county chứa 1 số dòng dữ liệu khó extract. VD: "Douglas, Braddan" thì chứa dấu phẩy bên trong nên extract thì bị lỗi. Kiểm tra trong Accident thì không có những dòng này => không cần extract.



Hình 1: Các bảng của TH\_Stage trong cơ sở dữ liệu



Hình 2: Truncate table từ Source vào Stage



Hình 3: Load dữ liệu từ flat file vào stage.

## **IV. ETL từ stage vào NDS**:

* Tạo TH\_NDS trong cơ sở dữ liệu.
* Rút trích bằng phương pháp Incremental Extract: chỉ rút trích những thay đổi so với lần rút trích gần đây nhất.
* Các bảng: Accident, Vehicle, Casualty, AgeBand có nguồn là flat file không có thuộc tính ngày trong các bảng, nên sử dụng accident\_index là thuộc tính tự tăng. Lần đầu tiên sẽ rút trích toàn bộ dữ liệu, các lần sau đó sẽ lấy ID được rút trích sau cùng nhất từ cơ sở dữ liệu Metadata.

+ Lấy max (accident\_index) từ metadata gán vào CET (ID rút trích hiện tại),

+ Lấy các dòng giữa LSET và CET tại: accident\_index >= LSEI và accident\_index < CET

+ Sau cùng, gán LSEI = CET vào Metadata.

Ảnh có chứa văn bản

Mô tả được tạo tự động

Hình 4

* Các bảng: Geography, LSOA thì trích xuất toàn bộ bảng.

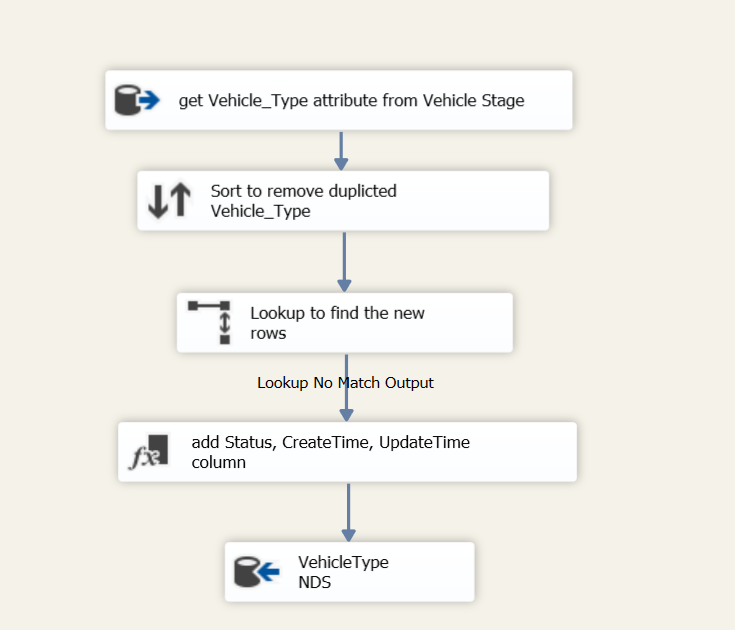
+ Lookup ở LSOA thì chỉ cần trên pcd8. Trong Accident có 38691 dòng LSOA\_of\_Accident\_Location ***NULL.*** Khi join thì có 53849 dòng LSOA trong NDS null. Điều này cho thấy LSOA\_of\_Accident\_Location không tìm thấy trong LSOA và phần lớn do bị null. Theo khảo sát thì chúng ta có thể giảm null bằng cách khóa ngoại từ Local\_Authority\_(District)-Accident NDS tới county-Geography NDS.

+ Theo khảo sát thấy có thể join nhờ vào county trong Geography NDS (kiểu chuỗi) và Local\_Authority\_(District) (kiểu int) trong Accident. Sử dụng codebook để chuyển và cùng 1 dạng chuỗi hoặc số. Sau đó mới có thể join tạo khóa ngoại.

Thiết kế NDS:



1. **Bảng Vehicle Type**



**Bước 1**: Lấy dữ liệu từ Bảng VehicleType\_Stage

**Bước 2**: Sort để loại bỏ các hàng trùng trong Vehicle\_Type

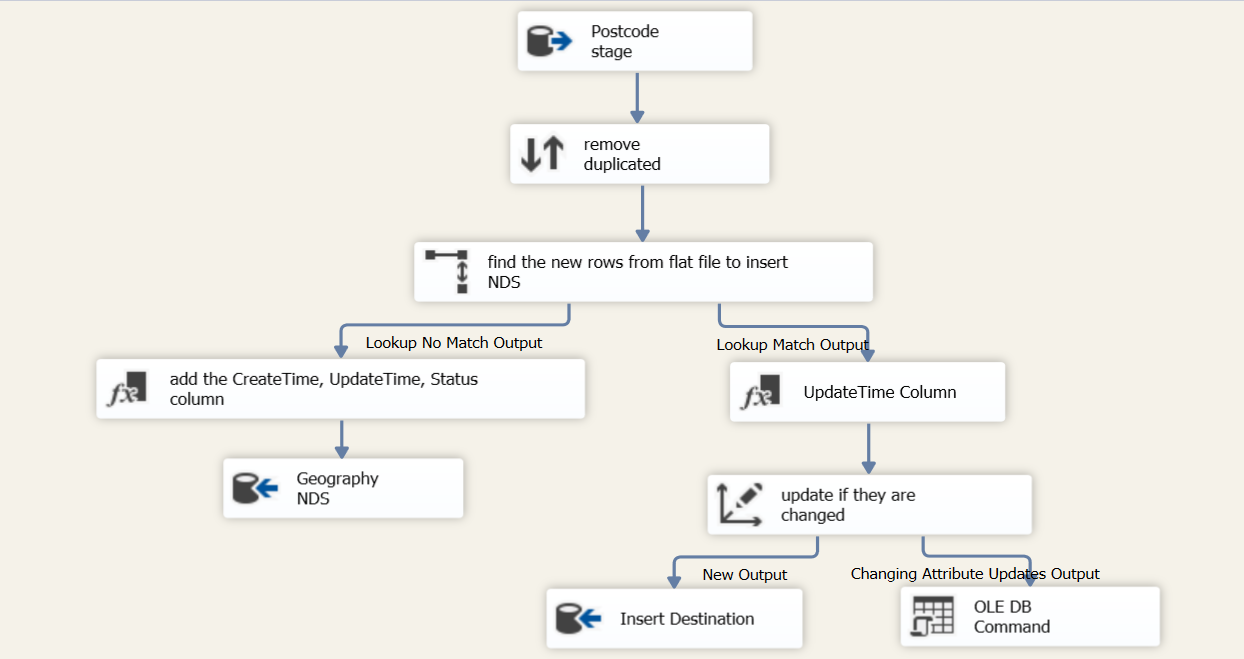
**Bước 3**: Lookup VehicleType để tìm các hàng mới.

**Bước 4**: Thêm các cột Status, CreateTime, UpdateTime

Ảnh có chứa bàn

Mô tả được tạo tự động

1. **Bảng Geography:**



**Bước 1**: Lấy dữ liệu từ Bảng Postcode\_Stage

**Bước 2**: Sort để loại bỏ các hàng trùng.

**Bước 3**: Lookup để tìm các hàng mới.

3.1: Nếu chưa có hàng đó trong NDS thì tạo các cột: Statsus, UpdateTime, CreateTime

3.2: + Nếu đã có thì cập nhật lại cột UpdateTime

+ Sử dụng thay đổi chậm trên các thuộc tính:

Ảnh có chứa bàn

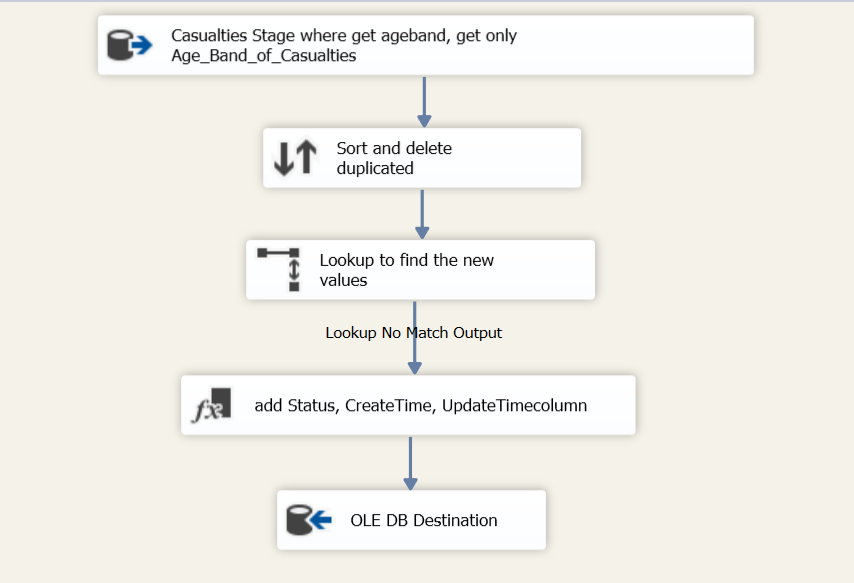
Mô tả được tạo tự động

**Kết quả:**

Ảnh có chứa bàn

Mô tả được tạo tự động

1. **Bảng AgeBand:**

****

**Bước 1**: Lấy dữ liệu từ bảng Casualties\_Stage

**Bước 2**: Sort để loại bỏ các hàng trùng.

**Bước 3**: Lookup để tìm các hàng mới.

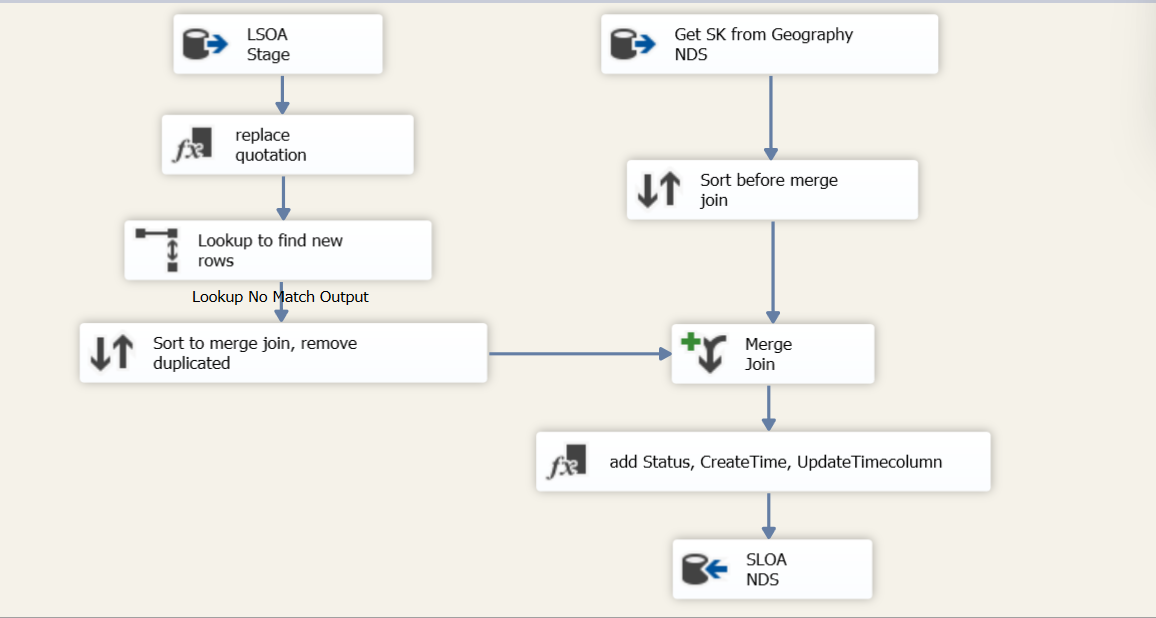
**Bước 4**: Thêm các cột Status, CreateTime, UpdateTime

**Kết quả:**

**Ảnh có chứa bàn

Mô tả được tạo tự động**

1. **Bảng LSOA:**

****

**Bước 1**: Lấy dữ liệu từ LSOA Stage.

**Bước 2**: Loại bỏ các dấu “\” trong pcd8 và lsoa11cd

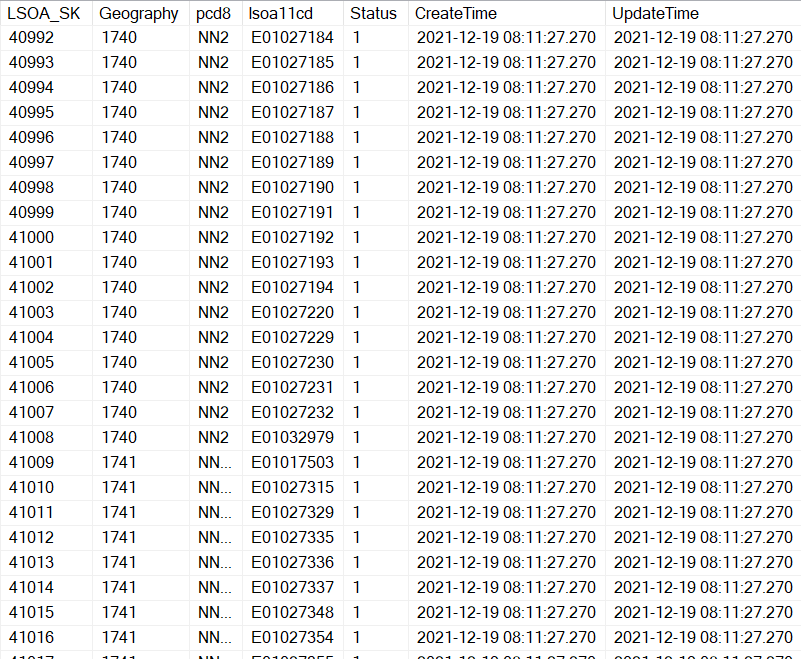
**Bước 3**: Lookup để tì hàng mới.

**Bước 4**: Sort để loại bỏ các hàng trùng và để Merge.

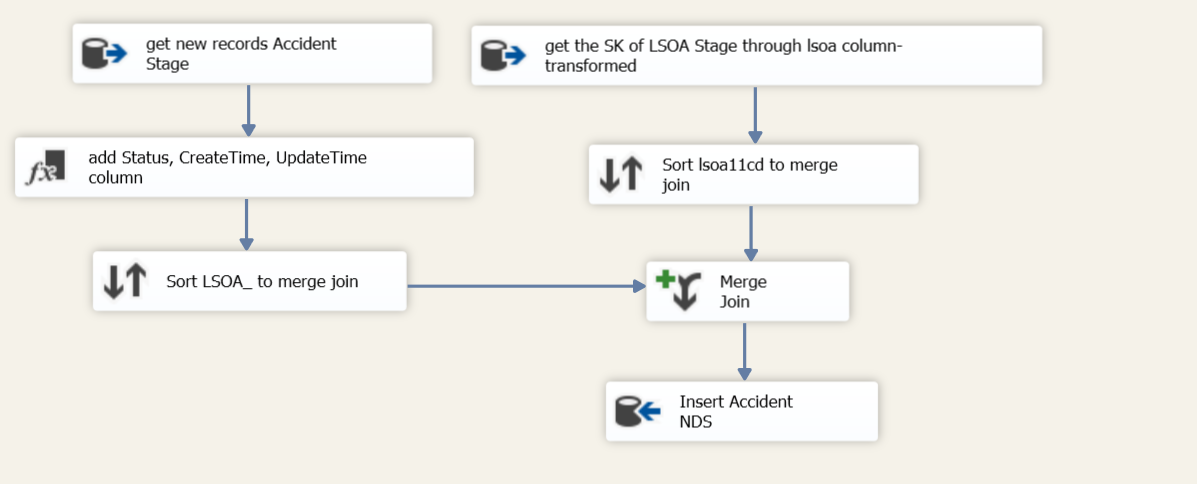
**Bước5:** Merge Join với bảng Georaphy NDS để lấy được khóa ngoại của bảng Geography.

**Bước 6**: Thêm các cột Status, CreateTime, UpdateTime.

**Kết quả:**

****

1. **Bảng Accident**

****

**Bước 1**: Lấy dữ liệu từ bảng Accident\_Stage

**Bước 2**: Thêm các cột Status, CreateTime, UpdateTime.

**Bước 3:** Sort để Merge

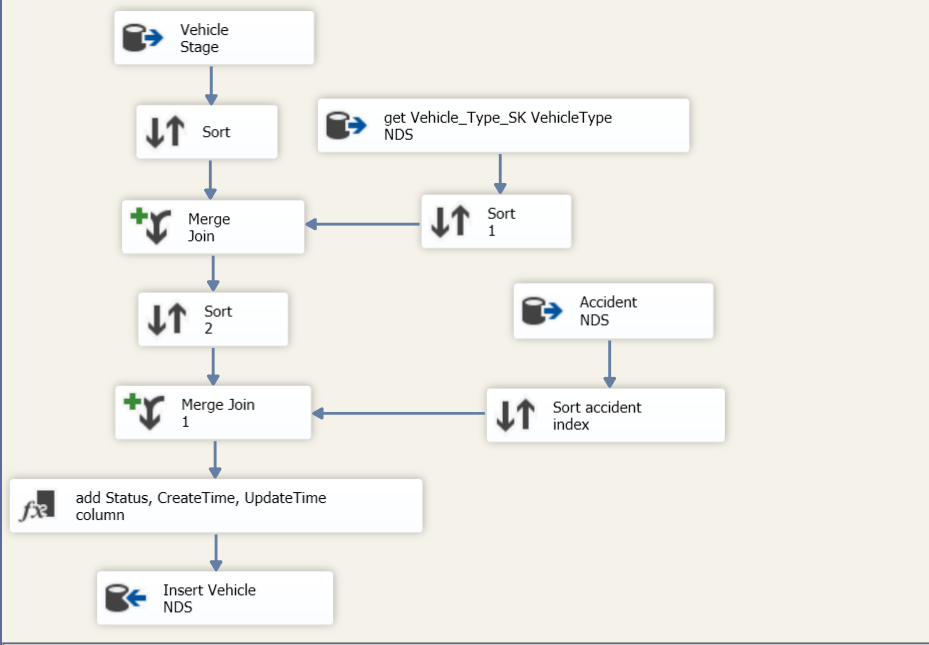
**Bước 4:** Merge Join để lấy LSOA\_SK của bảng LSOA trong NDS.

**Kết quả:**

Ảnh có chứa bàn

Mô tả được tạo tự động

1. **Bảng Vehicle**



**Bước 1**: Lấy dữ liệu từ bảng Vehicle\_Stage.

**Bước 2**: Sort để Merge.

**Bước 3**: Merge Join với bảng Vehicle\_Type để lấy Vehicle\_Type\_SK.

**Bước 4**: Sort để Merge.

**Bước 5**: Merge Join với bảng để lấy Accident\_SK.

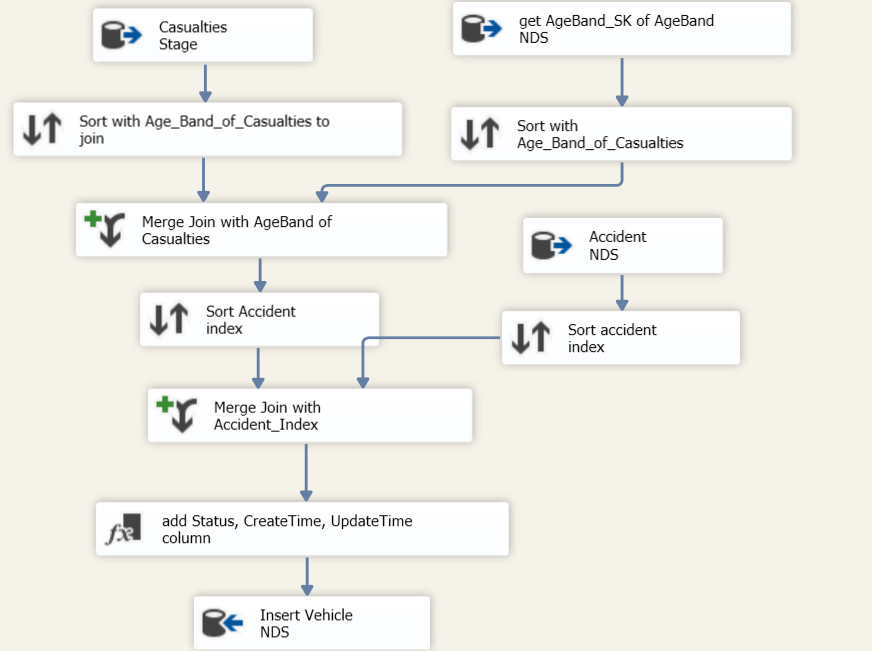
**Bước 6**: Thêm các cột Status, CreateTime, UpdateTime.

**Kết quả:**

Ảnh có chứa văn bản, trong nhà, lát gạch

Mô tả được tạo tự động

1. **Bảng Casualty:**



**Bước 1**: Lấy dữ liệu từ bảng Casualties \_Stage.

**Bước 2**: Sort để Merge.

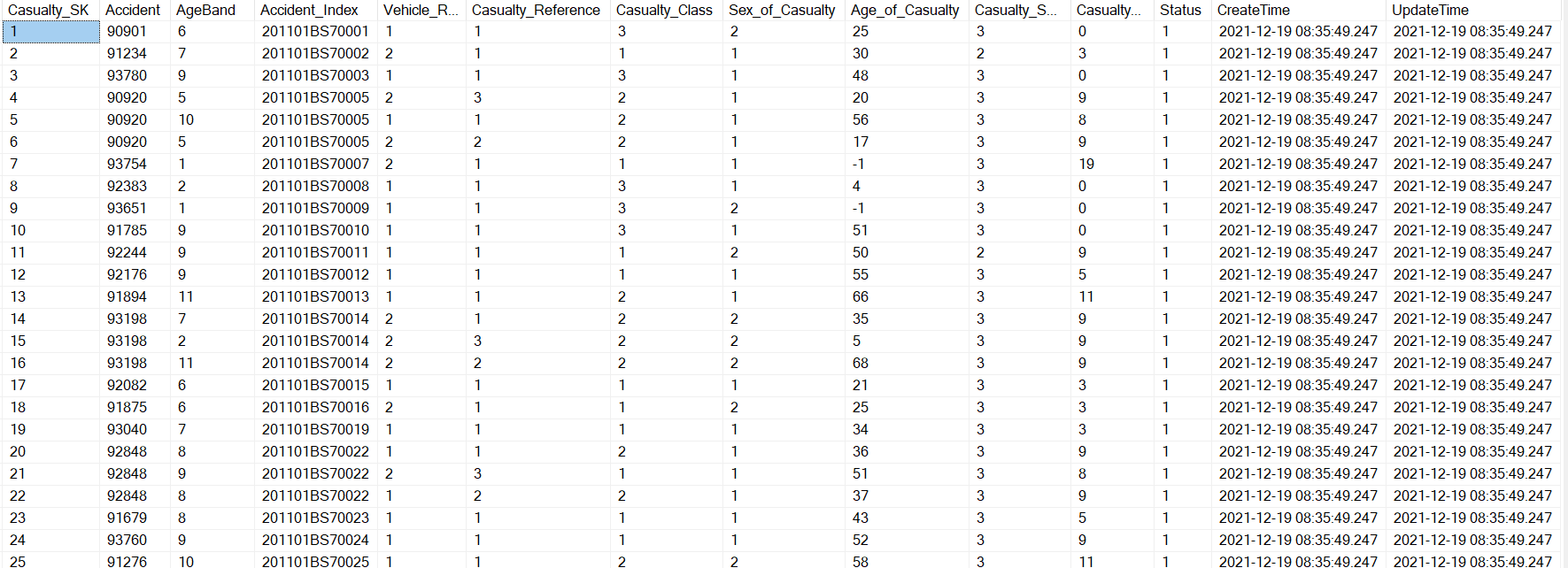
**Bước 3**: Merge Join với bảng AgeBand để lấy Vehicle\_Type\_SK.

**Bước 4**: Sort để Merge.

**Bước 5**: Merge Join với bảng để lấy Accident\_SK.

**Bước 6**: Thêm các cột Status, CreateTime, UpdateTime.

**Kết quả:**

****

## V. Từ NDS vào DDS:

## VI. OLAP:

## **VII. DataMining**:

1. ***Mining: Xem xét khả năng xảy ra tai nạn dẫn đến tử vong hoặc tai nạn nghiêm trọng dựa trên các điều kiện: Road\_Type, Light\_Conditions, Weather\_Conditions, Road\_Surface\_Conditions, Carriageway\_Hazards***

Bước 1: Xác định yêu cầu:

* + Kỹ thuật: Decision Tree và Clustering
  + Input: Light\_Condition, Weather\_Codition, Road\_Surface\_Condition, Special\_Condition\_at\_Site, Carriageway Hazards

Bước 2: Chuẩn bị dữ liệu:

2.1. Xử lý dữ liệu:

* + Light\_Condition:

+ bỏ các hàng có giá trị 0, -1

+ các hàng có giá trị 2, 3, 4, 5, 6, 7 🡪 ảnh hưởng đến tai nạn

* + Weather\_Codition:

+ bỏ các hàng có giá trị 8, 9, -1 (Other, Unknow, Missing)

+ còn lại các giá trị 2, 3, 4, 5, 6, 7 (Raining no high winds, Snowing no high winds, Fine + high winds, Raining + high winds, Snowing + high winds, Fog or mist) 🡪 Ảnh hưởng đến tai nạn

* + Road\_Surface\_Condition:

+ bỏ các hàng có giá trị -1 (Data Missing)

+ còn lại các giá trị 2, 3, 4, 5, 6, 7 (wet or damp, snow, frost or ice, flood over 3cm deep, oil or diesel, mud)

* + Special\_Condition\_at\_Site

+ bỏ các hàng có giá trị 0, -1

+ các hàng có giá trị 2, 3, 4, 5, 6, 7 🡪 ảnh hưởng đến tai nạn

* + Carriageway Hazards:

+ bỏ các hàng có giá trị 0, -1

+ các hàng có giá trị 2, 3, 4, 5, 6, 7 🡪 ảnh hưởng đến tai nạn

2.2. Thực hiện trong ssas.

=> Kết quả: Ảnh có chứa bàn

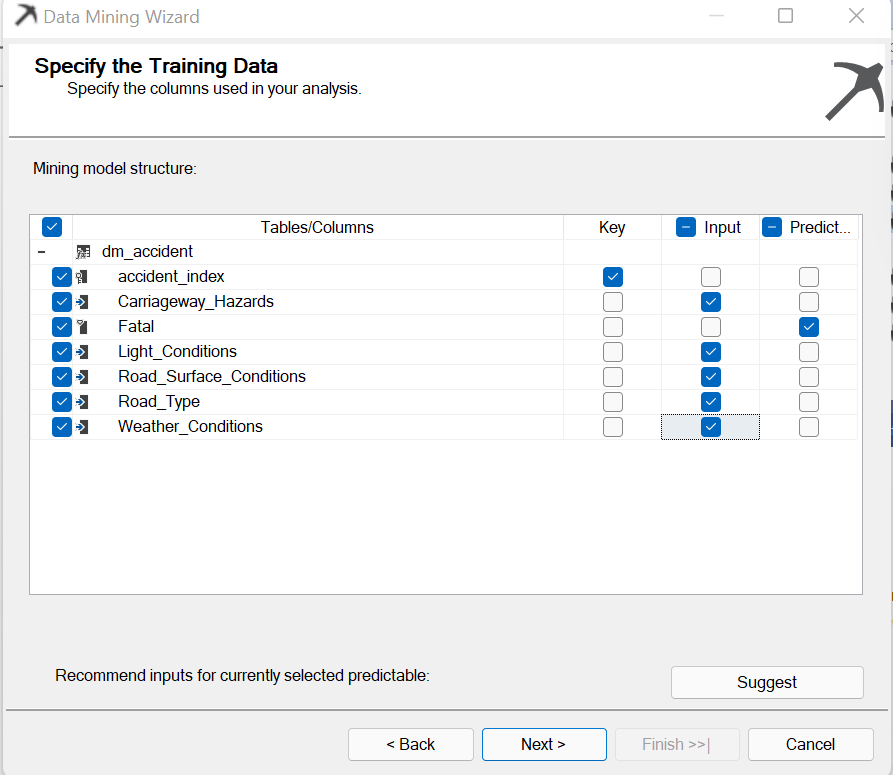
Mô tả được tạo tự động

Hình 1: Kết quả quá trình chuẩn bị dữ liệu

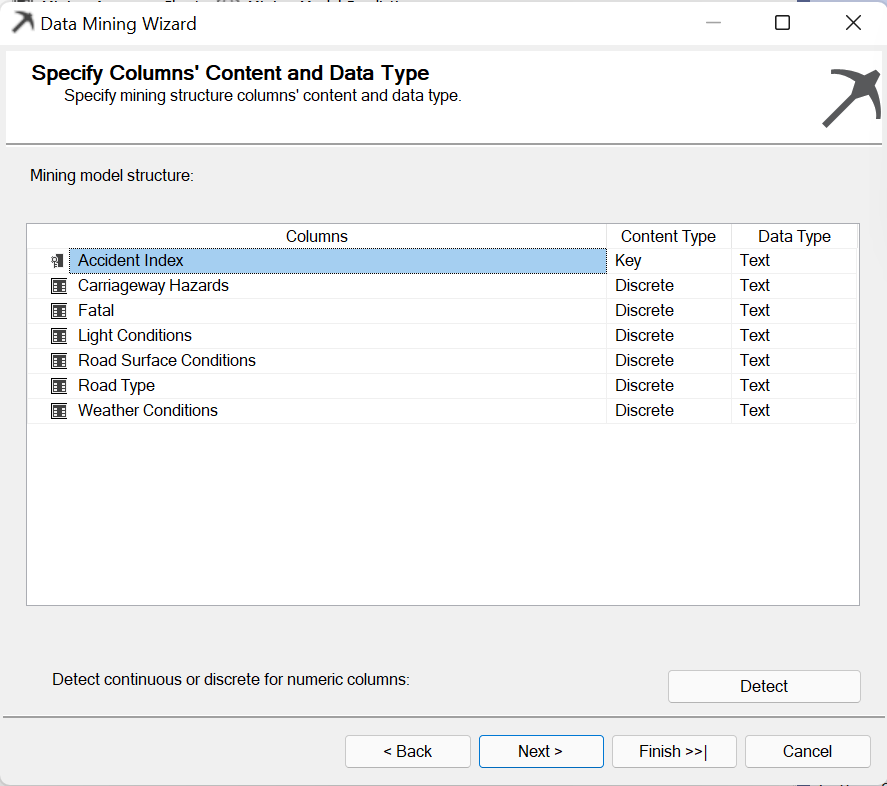
Ảnh có chứa văn bản

Mô tả được tạo tự động

Hình 2



Hình 3: Đặc tả các thuộc tính input và dự đoán

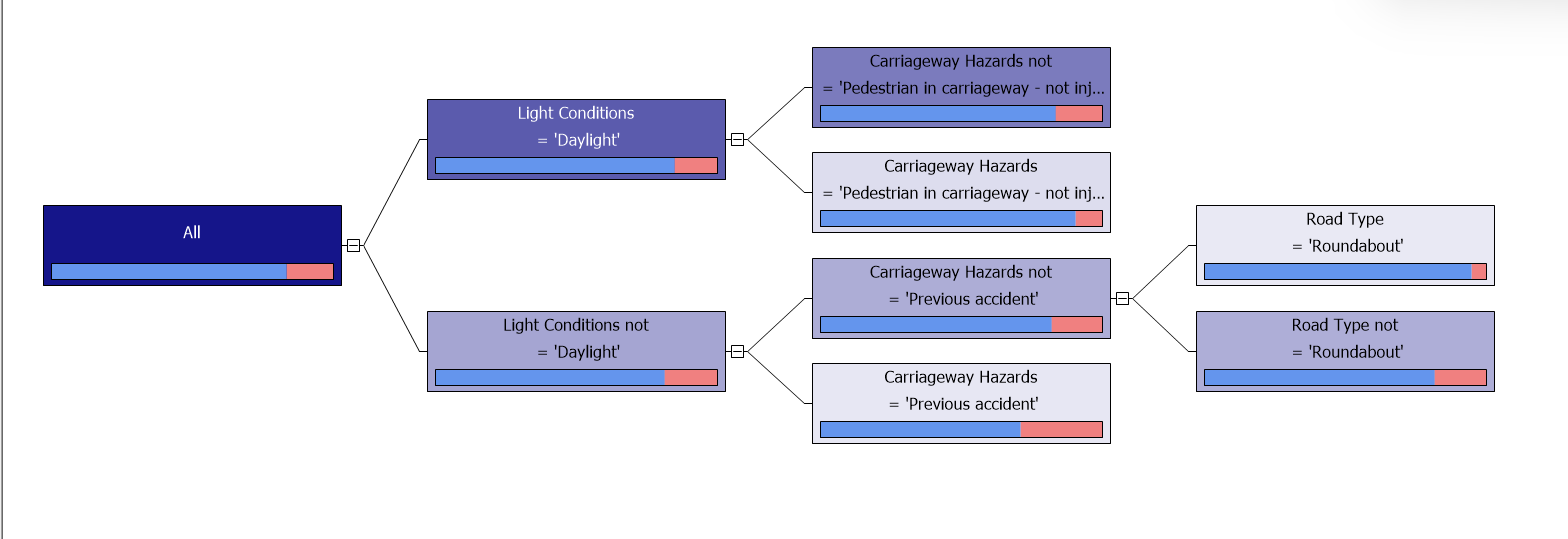


Hình 4: Đặc tả loại dữ liêu và kiểu dữ liệu để train

Ảnh có chứa văn bản

Mô tả được tạo tự động

Hình 5: Mô hình Decision Trees và Clustering



Hình 6: Decision Trees

- Quan sát kết quả của Decision Trees:

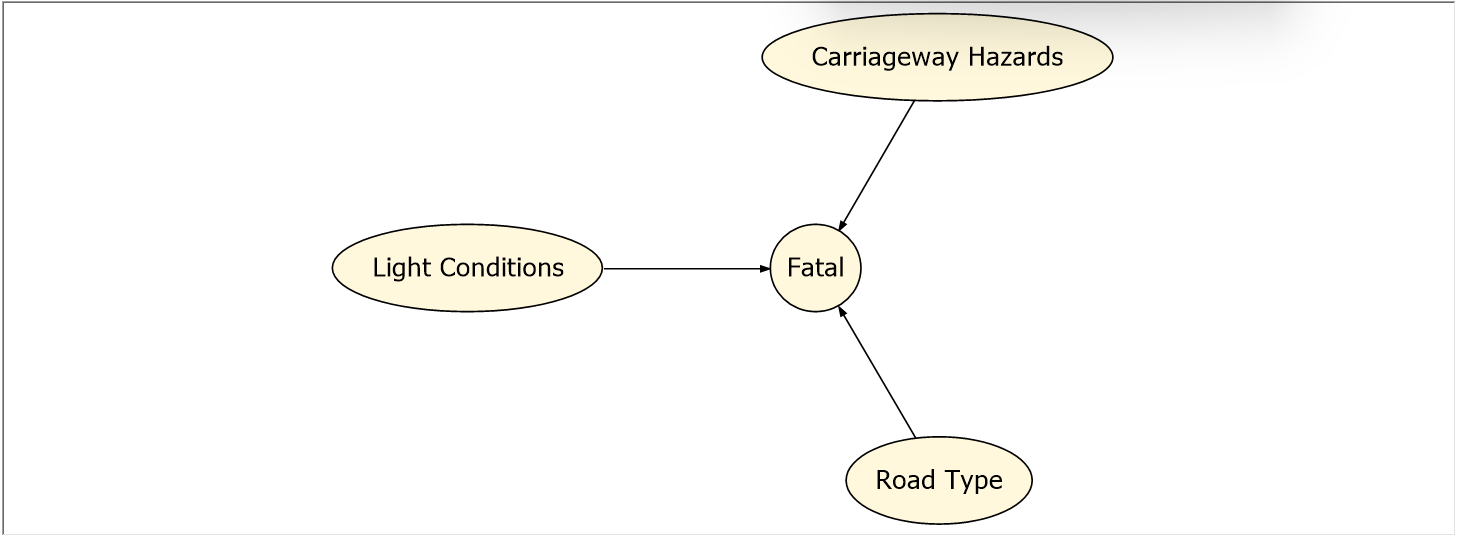
+ với điều kiện Light Conditions = 'Daylight' and Carriageway Hazards not = 'Pedestrian in carriageway - not injured' có: 16,67% xảy ra các tai nạn nghiêm trọng hoặc dẫn đến tử vong; 83, 33% xảy ra tai nạn nhẹ.

+ với điều kiện Light Conditions not = 'Daylight' and Carriageway Hazards = 'Previous accident' có: 29,09% là xảy ra tai nạn nghiêm trọng hoặc dẫn đến tử vog; 70,91% xảy ra tai nạn nhẹ.

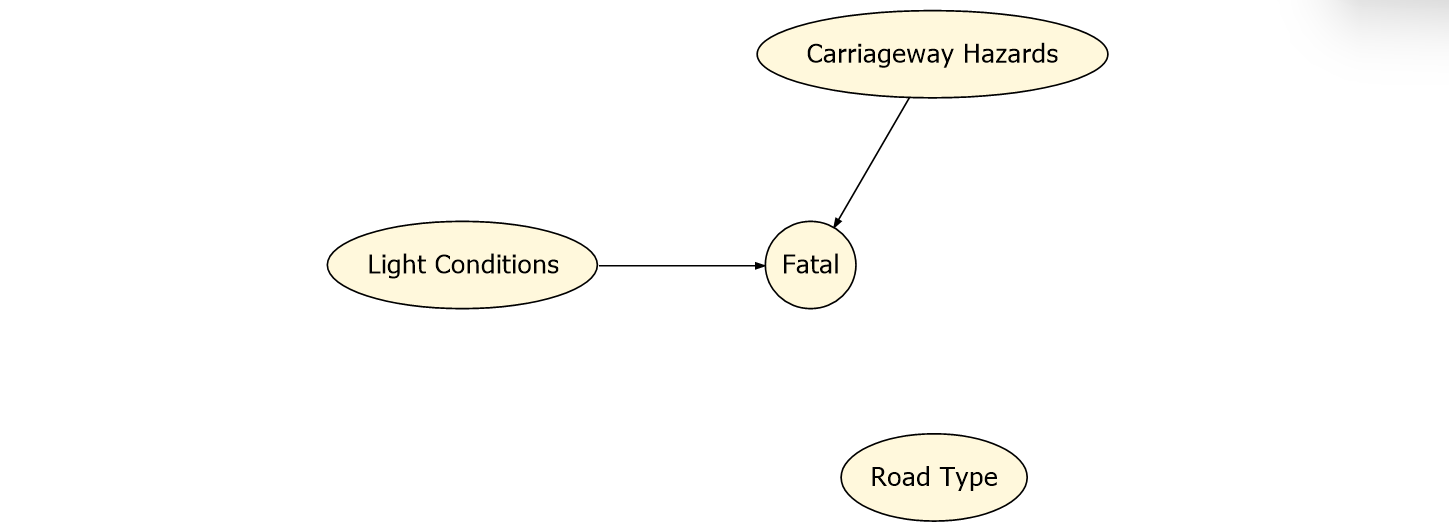
+ với điều kiện: Light Conditions not = 'Daylight' and Carriageway Hazards not = 'Previous accident' and Road Type not = 'Roundabout' có: 18.45% xảy ra các tai nạn nghiêm trọng hoặc tử vong; 81.55% xảy ra tai nạn nhẹ.

🡪 Với điều kiện: Light Conditions not = 'Daylight' thì cành có nhiều khả năng xảy ra tai nạn nghiêm trọng hoặc dễn đến tử vong.

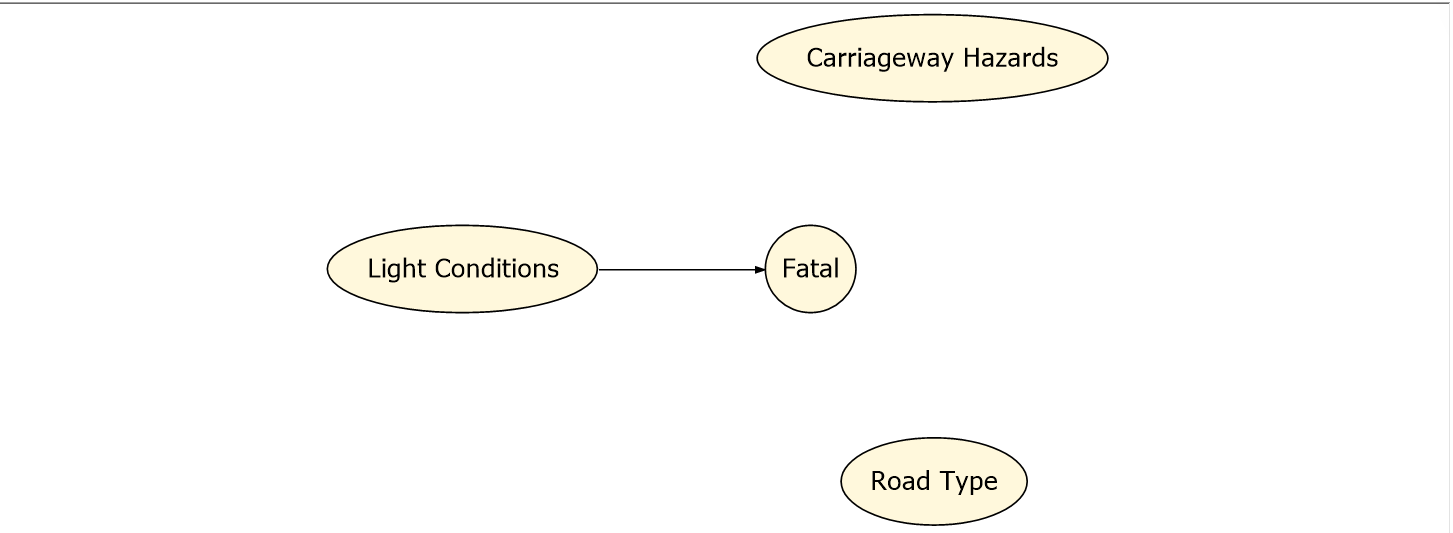
- Dependance Nenwork:



Hình 7: Dependence Network

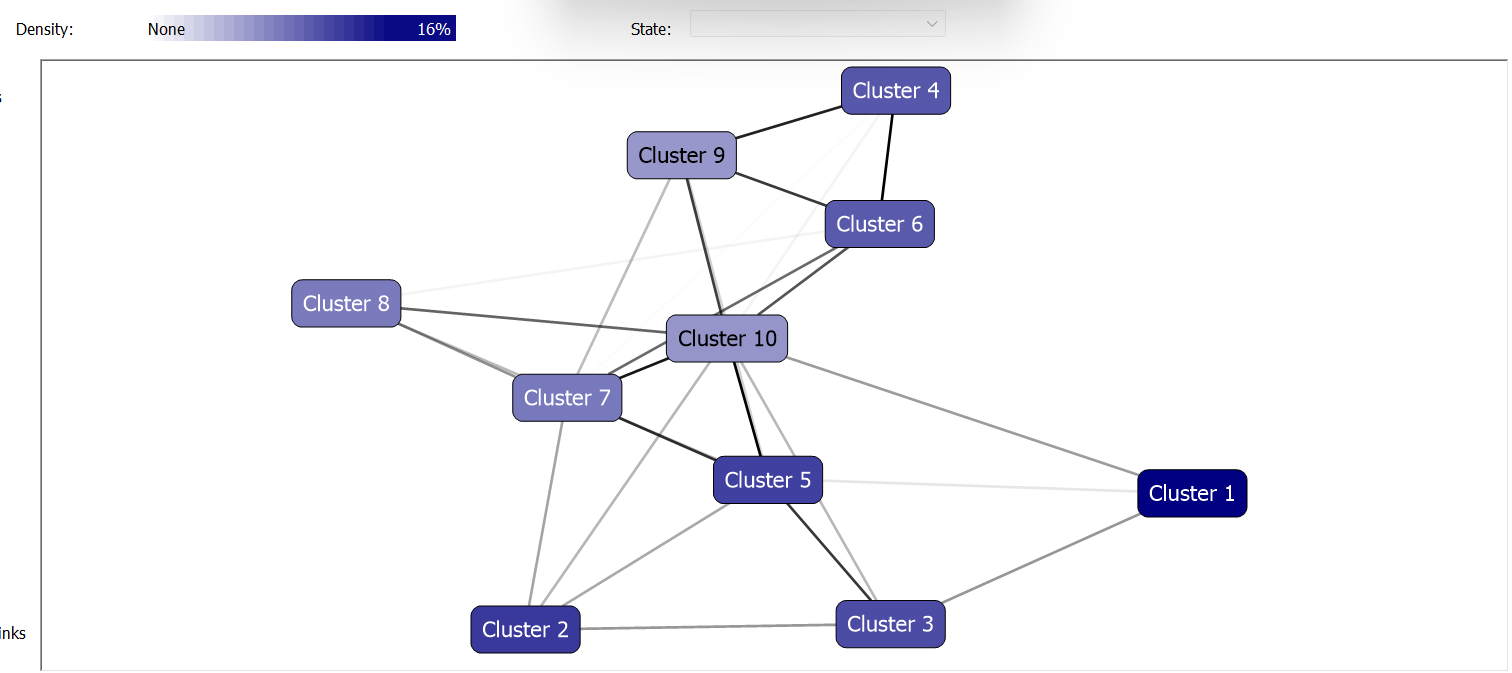


Hình 8: Dependence Network 2

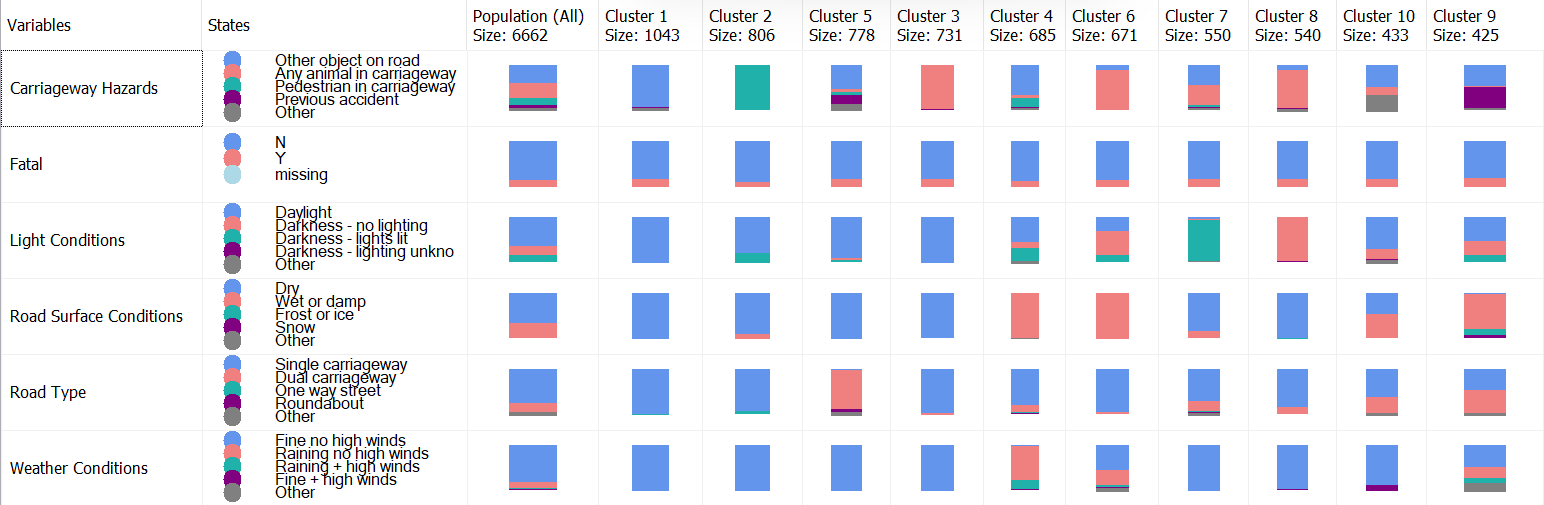


Hình 9: Dependence Network 3

Qua sự liên kết giữa các yếu tố có thể thấy được sự mạnh dần của các điều kiện: Theo thứ tự giảm dần: Light Conditions 🡪 Carriageway Hazard 🡪 Road Type



Hình 10: Cluster Digram

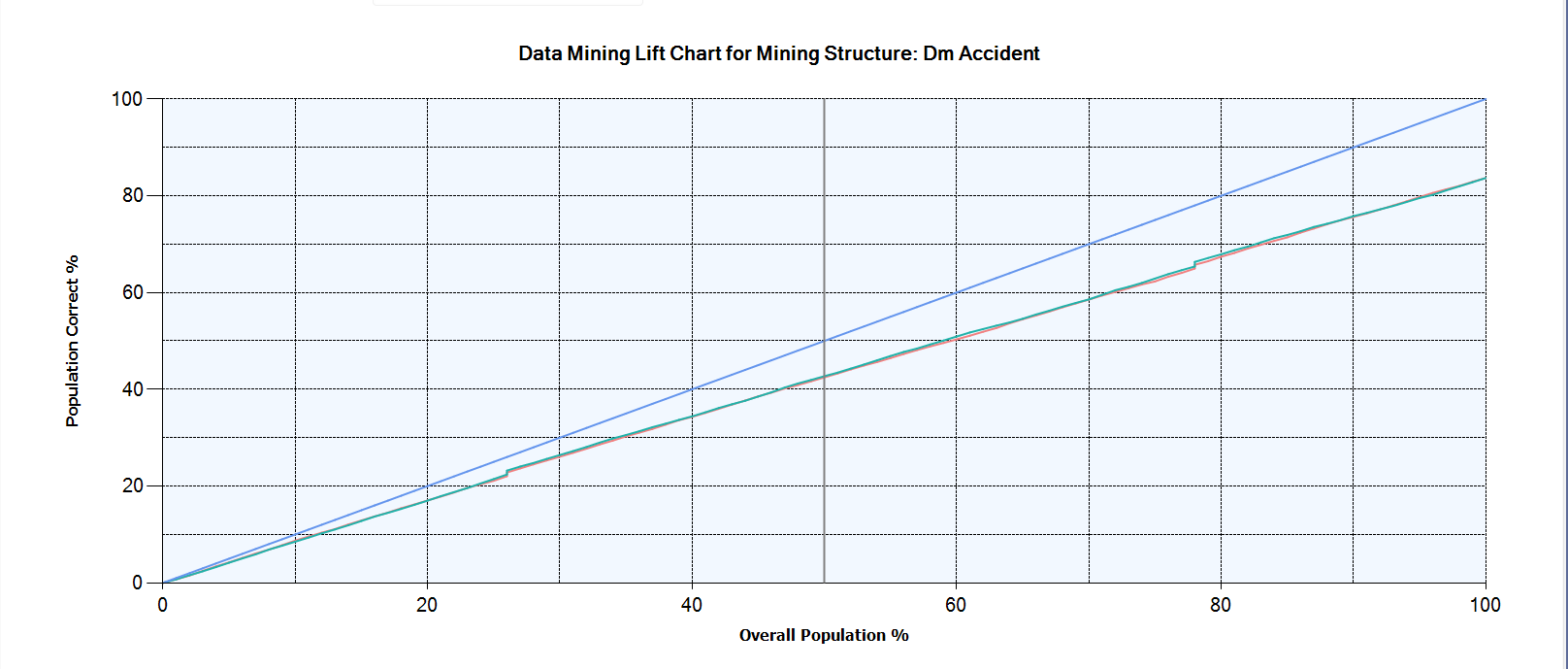


Hình 11: Cluster profiles

- Quan sát kết quả của Clusering:

+ Weather Codition, Road Surface Conditions: không có ảnh hưởng nhiều đến kết quả

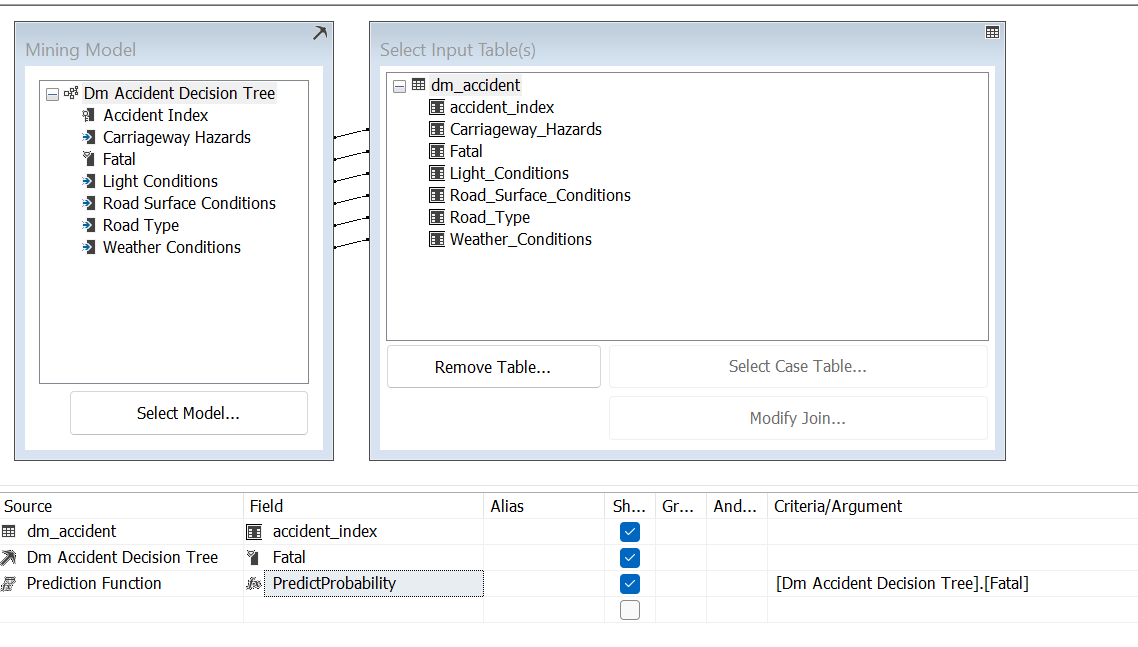
Kiểm tra độ chính xác của mô hình:



Hình 12: Sự chính xác của 2 mô hình

- Độ chính xác của 2 mô hình khá cao và đồng đều nhau: Decision Trees: 83.33%; Clustering: 82.74%

- Dự đoán:



Hình 13

Ảnh có chứa bàn

Mô tả được tạo tự động

Hình 14: Kết quả dự đó

1. ***Mining: Xem xét khả năng xảy ra tai nạn dẫn đến tử vong hoặc tai nạn nghiêm trọng dựa trên các điều kiện: Age\_of\_Driver, Sex\_of\_Driver, Journey\_Purpose\_of\_Driver, Age\_of\_Vehicle***

Bước 1: Xác định yêu cầu:

* + Kỹ thuật: Decision Tree và Clustering
  + Input: AgeofDriver, SexofDriver, JourneyPorpose, AgeofVehicle

Bước 2: Chuẩn bị dữ liệu:

2.1. Xử lý dữ liệu:

* + AgeofDriver:

+ bỏ các hàng có giá trị -1 (Data Missing)

* + SexofDriver:

+ bỏ các hàng có giá trị 3, -1 (Other, Missing)

* + JourneyPorpose:

+ bỏ các hàng có giá trị 6, 15, -1 (Data Missing)

* + AgeofVehicle

+ bỏ các hàng có giá trị -1

2.2. Thực hiện trong ssas.

Ảnh có chứa văn bản

Mô tả được tạo tự động

=> Kết quả:

Ảnh có chứa bàn

Mô tả được tạo tự động

Hình 15: Kết quả quá trình chuẩn bị dữ liệu

Ảnh có chứa văn bản

Mô tả được tạo tự động

Hình 16

Ảnh có chứa văn bản

Mô tả được tạo tự động

Hình 17: Đặc tả các thuộc tính input và dự đoán

Ảnh có chứa văn bản

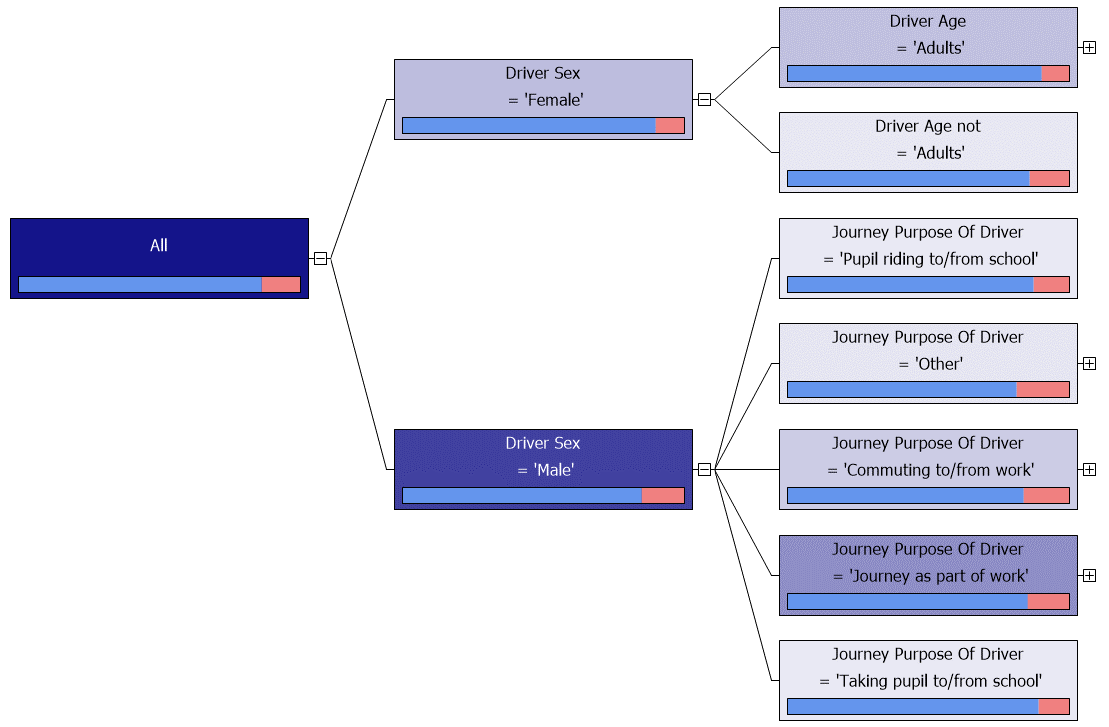
Mô tả được tạo tự động

Hình 18: Đặc tả loại dữ liêu và kiểu dữ liệu để train

Ảnh có chứa văn bản

Mô tả được tạo tự động

Hình 19: Mô hình Decision Trees và Clustering



Hình 20: Decision Trees

- Quan sát kết quả của Decision Trees:

+ với điều kiện Driver Sex = 'Female' and Driver Age = 'Adults' có: 10.17% xảy ra các tai nạn nghiêm trọng hoặc dẫn đến tử vong; 89.83% xảy ra tai nạn nhẹ.

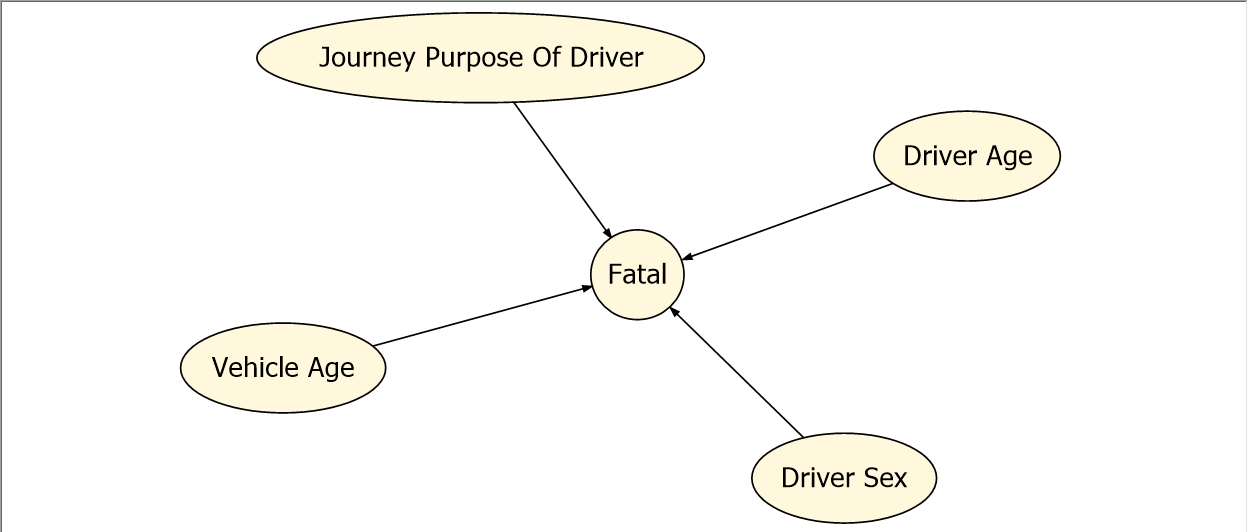
+ với điều kiện Driver Sex = 'Male' and Journey Purpose Of Driver = 'Other' and Vehicle Age = '20-30' có: 39.65% là xảy ra tai nạn nghiêm trọng hoặc dẫn đến tử vog; 60.35% xảy ra tai nạn nhẹ.

+ với điều kiện Driver Sex = 'Male' and Journey Purpose Of Driver = 'Journey as part of work' and Vehicle Age = '20-30' có: 22.13% xảy ra các tai nạn nghiêm trọng hoặc tử vong; 77.87% xảy ra tai nạn nhẹ.

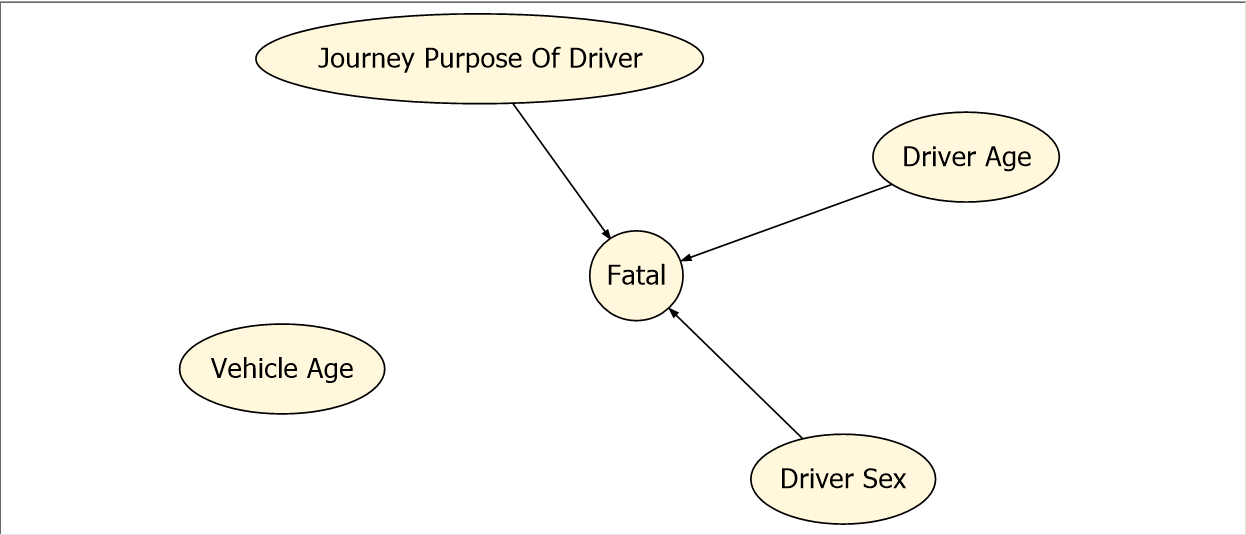
🡪 Với điều kiện: Driver Sex = 'Male' and Journey Purpose Of Driver = 'Other' and Vehicle Age = '20-30' có khả năng xảy ra tai nạn rất lớn.

Drive Sẽ = ‘Male’ có khả năng xảy ra tai nạn nghiêm trọng nhiều hơn là ‘Female’

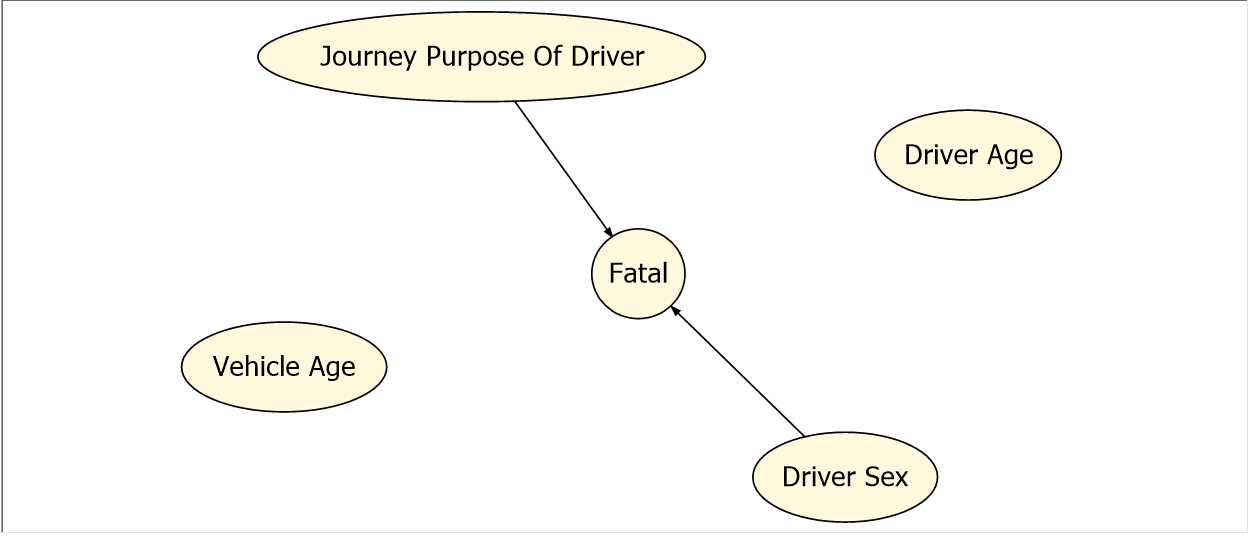
- Dependance Nenwork:



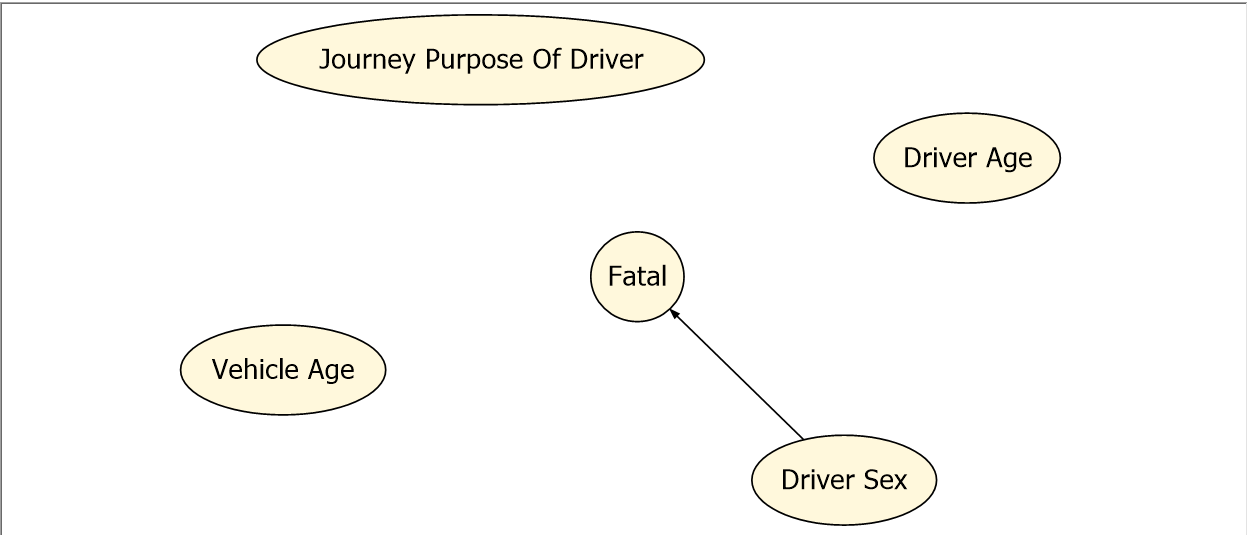
Hình 21: Dependence Network



Hình 22: Dependence Network 2

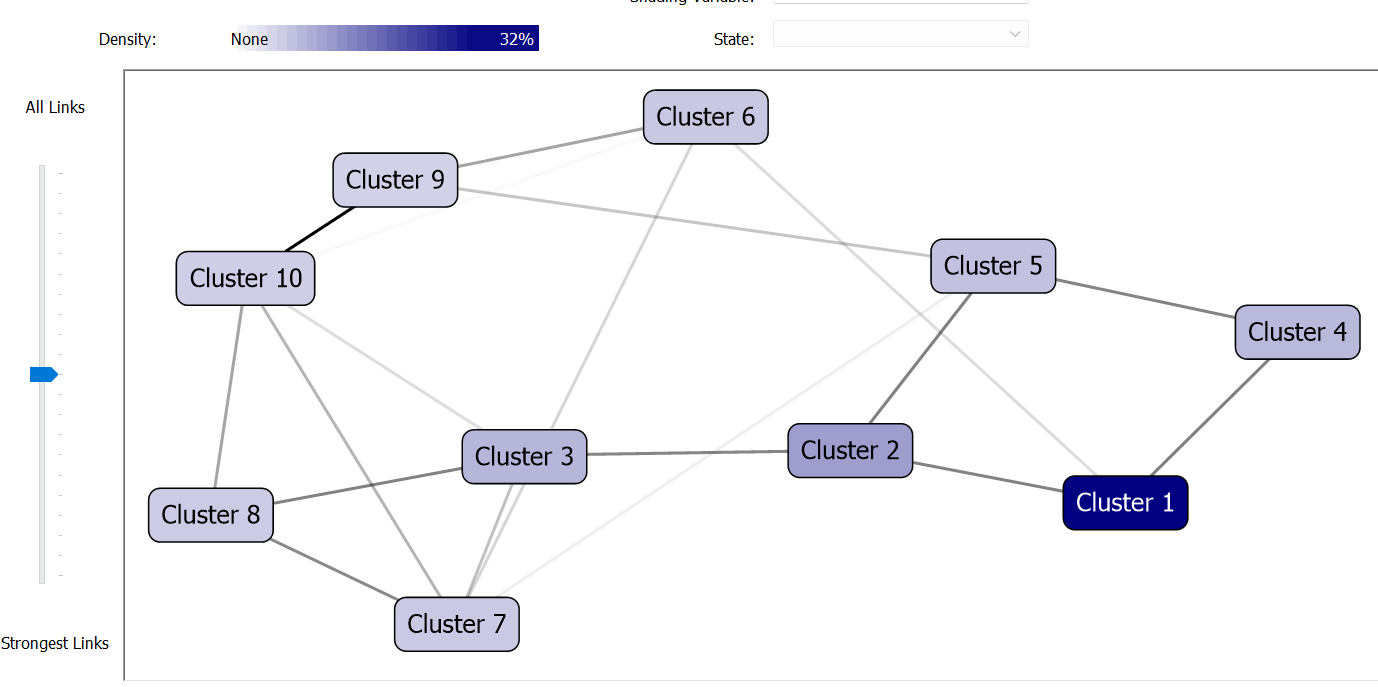


Hình 23: Dependence Network 3

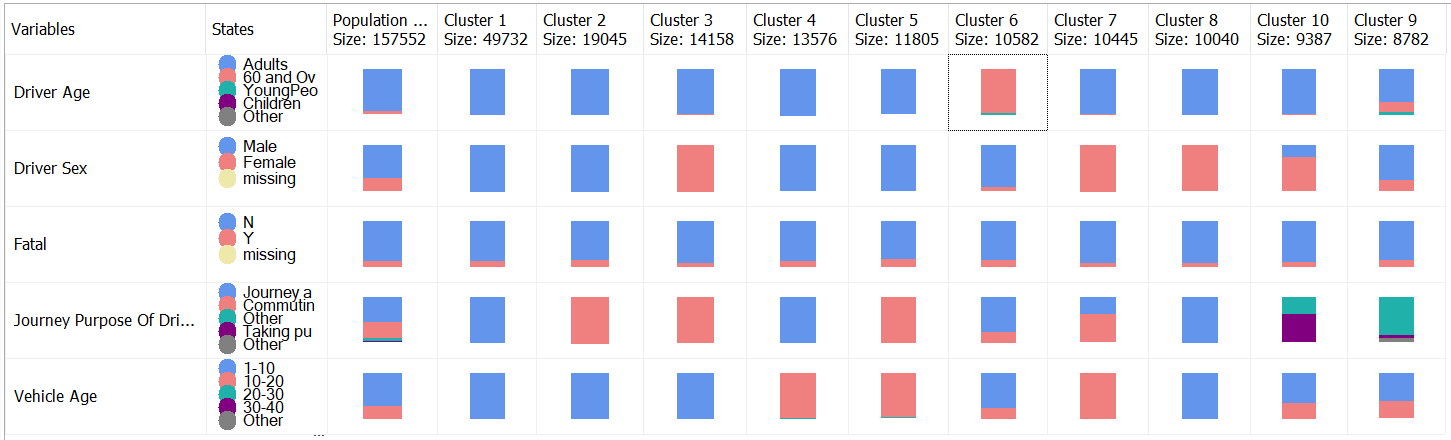


Hình 24: Dependence Network 4

Qua sự liên kết giữa các yếu tố có thể thấy được sự mạnh dần của các điều kiện: Theo thứ tự giảm dần: Light Conditions 🡪 Carriageway Hazard 🡪 Road Type



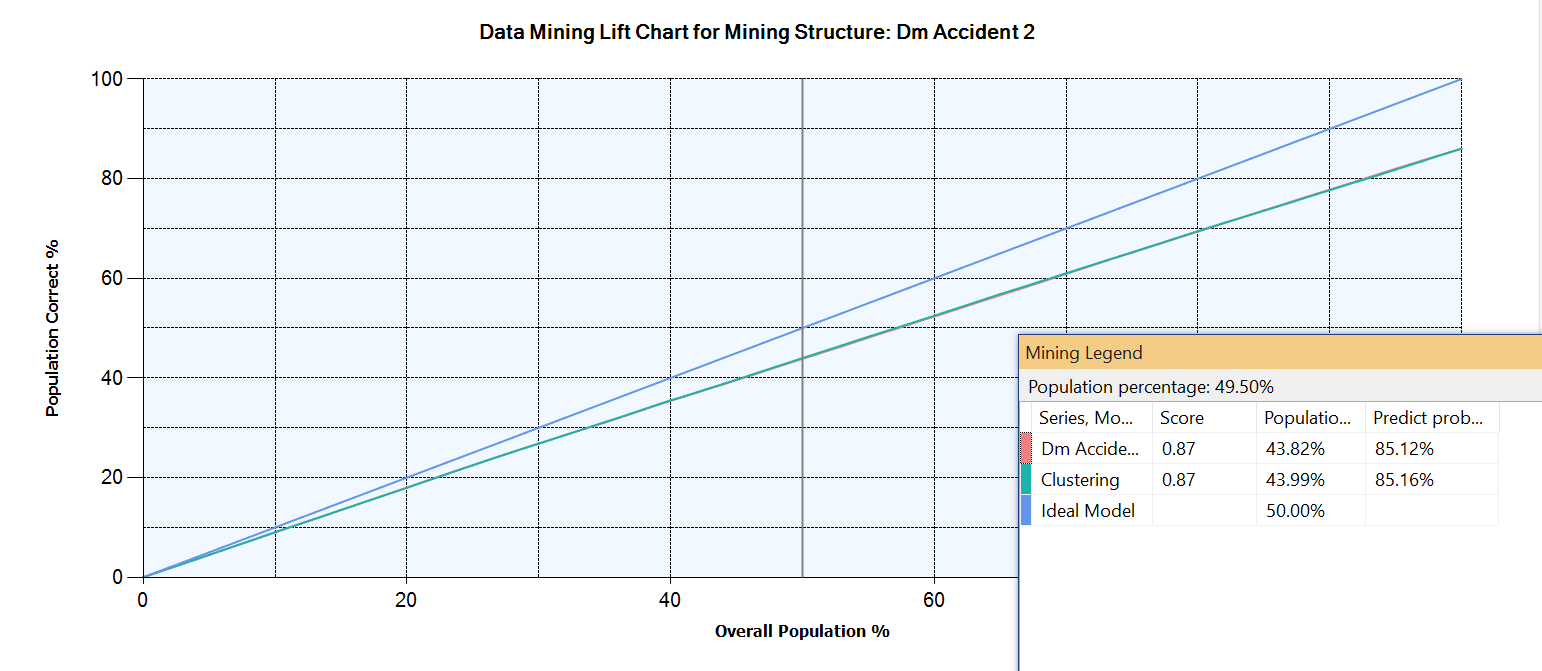
Hình 25: Cluster Digram



Hình 26: Cluster profiles

- Quan sát kết quả của Clusering:

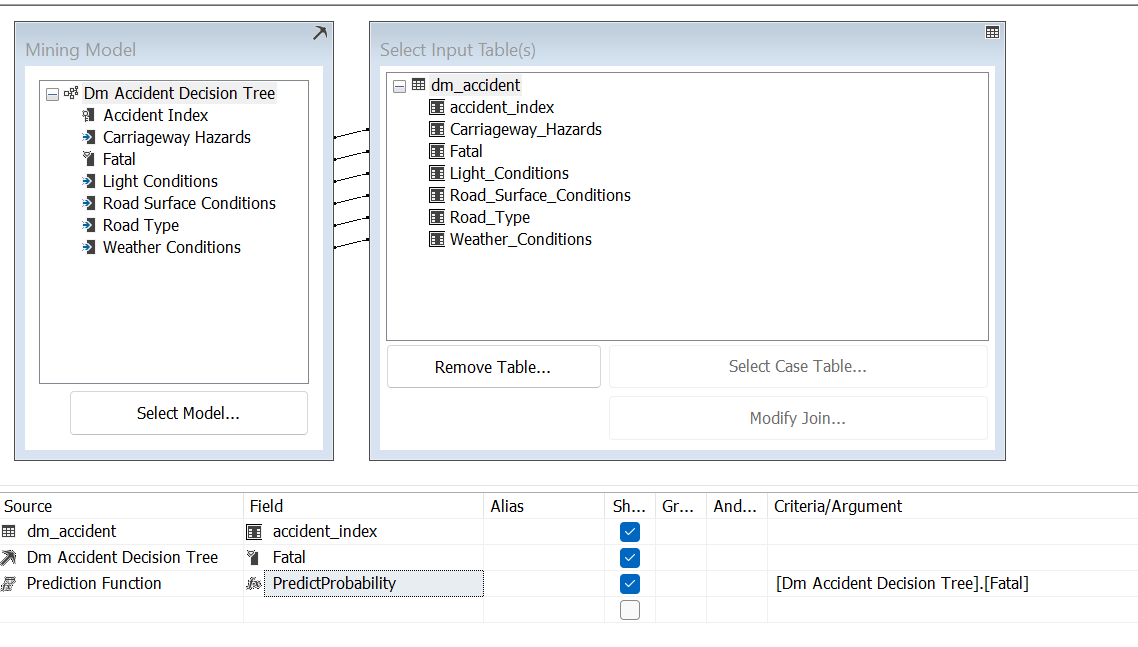
Kiểm tra độ chính xác của mô hình:



Hình 27: Sự chính xác của 2 mô hình

- Độ chính xác của 2 mô hình gần như giống nhau nhau: Decision Trees: 85.1%; Clustering: 85.16%

- Dự đoán:



Hình 28

Ảnh có chứa bàn

Mô tả được tạo tự động

Hình 29: Kết quả dự đó

# C. Tài liệu tham khảo:

1. Lookup in SSIS: [An Overview of the LOOKUP TRANSFORMATION in SSIS (sqlshack.com)](https://www.sqlshack.com/an-overview-of-the-lookup-transformation-in-ssis/#:~:text=Use%20of%20Lookup%20Transformation%20in%20SSIS.%20The%20Lookup,insert%20data%20into%20it%20with%20the%20following%20queries.)

2. Thêm ID tự tăng trong SSIS (7:10’): [ETL Project From Excel Data Source to Star Schema with SSIS - YouTube](https://www.youtube.com/watch?v=Yp8fXLnVCp8)

3. Xem kiểu dữ liệu khi đặt kiểu cho flat file: [Integration Services Data Types - SQL Server Integration Services (SSIS) | Microsoft Docs](https://docs.microsoft.com/en-us/sql/integration-services/data-flow/integration-services-data-types?redirectedfrom=MSDN&view=sql-server-ver15)

4. Scipt compenent-Tạo cột, tính toán dựa trên một cột đã có: <https://youtu.be/BPVIV-oiT2E?t=466> . Khi sử dụng cái này lúc edit script không được thì cần download VSTA về cài rồi làm tiếp.