|  |  |  |
| --- | --- | --- |
| **INF 214** | | |
|  |  |  |
| Shape, circle  Description automatically generated | **Class Activity 7: Normalisation**  **Dependency Diagrams** | |
|  |  |  |

Design the dependency diagram for the data given below in **1st, 2nd and 3rd normal form.**  You are given the following flat file with tourist data:



**1NF:**

Partial dependency

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PassengerNo** | PName | PSurname | PCell | ID | **Destination No** | Destination Des | DailyCost | **AgentNo** | TA | CommissionPerc | Duration | Admin Fee |

Partial dependency

Transitive

dependency

Partial dependency

**2NF:**

**Table NAME: Passenger**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PassengerNo** | PName | PSurname | PCell | ID |

**Table NAME: Destination**

|  |  |  |
| --- | --- | --- |
| **Destination No** | Destination Des | DailyCost |

Transitive

dependency

**Table NAME: Agent**

|  |  |  |  |
| --- | --- | --- | --- |
| **AgentNo** | TA | CommissionPerc | Admin Fee |

**Table NAME: Stay**

|  |  |  |
| --- | --- | --- |
| **PassengerNo** | **Destination No** | Duration |

**3NF:**

**Table NAME: Location**

|  |  |
| --- | --- |
| **Destination No** | Destination Des |

**Table NAME: Cost**

|  |  |
| --- | --- |
| Destination Des | DailyCost |