**Md.Al-Abid. (05-002-007)**

**Project**

**Launch Transport Management System**

**Step 1: Identify the Attributes and Primary key for each Entity**

**Launch** ( launch\_id, name, capacity, launch\_type)

**Route** ( route\_id, start\_location, end\_location, distance, duration )

**Customer** ( customer\_id, first\_name, last\_name, contact\_number, email )

**Booking** ( booking\_id, customer\_id, launch\_id, route\_id, booking\_date, seats, status)

**Staff** ( staff\_id, name, role, contact\_number, launch\_id )

**Payment** ( payment\_id, booking\_id, amount, payment\_date, payment\_method )

**Step 2: Identify the Relationship**

Entities have some relationships with each other. Relationships define how entities are associated with each other.

Let’s Establishing Relationships between them are:

* Customer has booking
* Payment has booking
* Booking associated with route
* Launch has booking
* Saff works in launch

**Step 3: Identify the Cardinality Ratio and Participation**

1. Customer-Booking

Relationship: One-to-Many



1. Payment-Booking

Relationship: One-to-One



1. Booking-Route

Relationship: Many-to-One



1. Launch-Booking

Relationship: One-to-Many

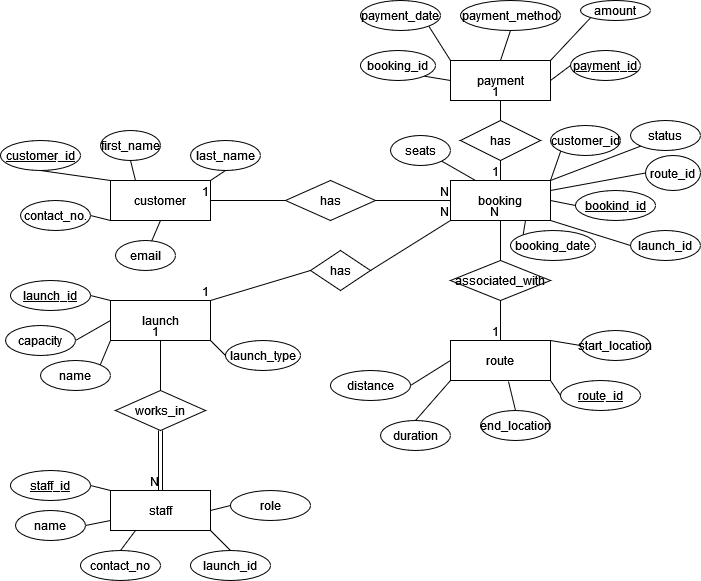


1. Staff-launch

Relationship: Many-to-One



**Step 4: ER Diagram Representation**

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**Step-5: Implementing the schema Diagram**

