

# FlightManagementCompany\_LINQ\_EFCore\_Troubleshooting

## Error 1:

The type or namespace name 'Flight' could not be found (are you missing a using directive or an assembly reference?)

Solve 👍

using FlightManagementCompany\_LINQ\_EFCore.Models; // Ensure this namespace matches your Flight model's namespace

## Error 2:

Introducing FOREIGN KEY constraint

'FK\_FlightCrews\_CrewMembers\_CrewMemberCrewId' on table 'FlightCrews' may cause cycles or multiple cascade paths. Specify ON DELETE NO ACTION or ON UPDATE NO ACTION, or modify other FOREIGN KEY constraints.

Could not create constraint or index. See previous errors.

Solve 👍

constraints: table =>

```
{
    table.PrimaryKey("PK_FlightCrews", x => new { x.FlightId, x.CrewId });
    table.CheckConstraint("CK_FlightCrew_RoleOnFlight", "[RoleOnFlight] IN ('Pilot','CoPilot','FlightAttendant')");
    table.ForeignKey(
        name: "FK_FlightCrews_CrewMembers_CrewId",
        column: x => x.CrewId,
        principalTable: "CrewMembers",
        principalColumn: "CrewId",
        onDelete: ReferentialAction.Cascade);
    table.ForeignKey(
        name: "FK_FlightCrews_CrewMembers_CrewMemberCrewId",
        column: x => x.CrewMemberCrewId,
        principalTable: "CrewMembers",
        principalColumn: "CrewId",
        onDelete: ReferentialAction.Cascade);
    table.ForeignKey(
        name: "FK_FlightCrews_Flights_FlightId",
        column: x => x.FlightId,
        principalTable: "Flights",
        principalColumn: "FlightId",
        onDelete: ReferentialAction.Cascade);
    table.ForeignKey(
        name: "FK_FlightCrews_Flights_FlightId1",
```

```

        column: x => x.FlightId1,
        principalTable: "Flights",
        principalColumn: "FlightId",
        onDelete: ReferentialAction.Cascade);
});

```

Remove those parts of code 👍

```

table.ForeignKey(
    name: "FK_FlightCrews_CrewMembers_CrewMemberCrewId",
    column: x => x.CrewMemberCrewId,
    principalTable: "CrewMembers",
    principalColumn: "CrewId",
    onDelete: ReferentialAction.Cascade);

```

```

table.ForeignKey(
    name: "FK_FlightCrews_Flights_FlightId1",
    column: x => x.FlightId1,
    principalTable: "Flights",
    principalColumn: "FlightId",
    onDelete: ReferentialAction.Cascade);

```

### Error 3:

Introducing FOREIGN KEY constraint 'FK\_Tickets\_Bookings\_BookingId1' on table 'Tickets' may cause cycles or multiple cascade paths. Specify ON DELETE NO ACTION or ON UPDATE NO ACTION, or modify other FOREIGN KEY constraints.  
Could not create constraint or index. See previous errors.

Solve 👍

In this code 🙌

constraints: table =>

```

{
    table.PrimaryKey("PK_Tickets", x => x.TicketId);
    table.CheckConstraint("CK_Ticket_CheckedIn", "[CheckedIn] IN (0,1)");
    table.ForeignKey(
        name: "FK_Tickets_Bookings_BookingId",
        column: x => x.BookingId,
        principalTable: "Bookings",
        principalColumn: "BookingId",
        onDelete: ReferentialAction.Cascade);
    table.ForeignKey(
        name: "FK_Tickets_Bookings_BookingId1",
        column: x => x.BookingId1,
        principalTable: "Bookings",
        principalColumn: "BookingId",
        onDelete: ReferentialAction.Cascade);
    table.ForeignKey(
        name: "FK_Tickets_Flights_FlightId",

```

```

        column: x => x.FlightId,
        principalTable: "Flights",
        principalColumn: "FlightId",
        onDelete: ReferentialAction.Restrict);
table.ForeignKey(
    name: "FK_Tickets_Flights_FlightId1",
    column: x => x.FlightId1,
    principalTable: "Flights",
    principalColumn: "FlightId",
    onDelete: ReferentialAction.Cascade);
});

```

Remove those Part of code 👍

```

table.ForeignKey(
    name: "FK_Tickets_Bookings_BookingId1",
    column: x => x.BookingId1,
    principalTable: "Bookings",
    principalColumn: "BookingId",
    onDelete: ReferentialAction.Cascade);

```

```

table.ForeignKey(
    name: "FK_Tickets_Flights_FlightId1",
    column: x => x.FlightId1,
    principalTable: "Flights",
    principalColumn: "FlightId",
    onDelete: ReferentialAction.Cascade);

```

#### Error 4:

'DateTime' does not contain a definition for 'ToDateTime' and no accessible extension method 'ToDateTime' accepting a first argument of type 'DateTime' could be found (are you missing a using directive or an assembly reference?)

In part of code 😞

```
b.BookingDate.ToDateTime(new TimeOnly(0, 0))
```

Solve:

**BookingDate is a DateTime**

Just remove `.ToDateTime()` and use it directly:

```
var candidate = flights
```

```

        .OrderBy(f => Math.Abs((f.DepartureUtc -
b.BookingDate).TotalDays))
        .First();

```

Error 5:

The name 'DbSeeder' does not exist in the current context" shown in this code

In this part of code in SeedData class:

```

internal class Program
{ static async Task Main()
    { using var db = new FlightDatabaseContext(); // Make sure schema is up to date
      await db.Database.MigrateAsync();
      // Seed await
      DbSeeder.SeedAsync(db);
    }
}

```

Solve 👍

1. put **DbSeeder** in the same namespace as **Program**
2. fully qualify it:

```

FlightManagementCompany_LINQ_EFCore.Seeding.DbSeeder.SeedAsync(db);

```

Error 6:

'AircraftMaintenance' does not contain a definition for  
'Description' and no accessible extension method 'Description'  
accepting a first argument of type 'AircraftMaintenance' could be  
found (are you missing a using directive or an assembly reference?)

Case :

Use the name of model without create using for the namespace of that  
model

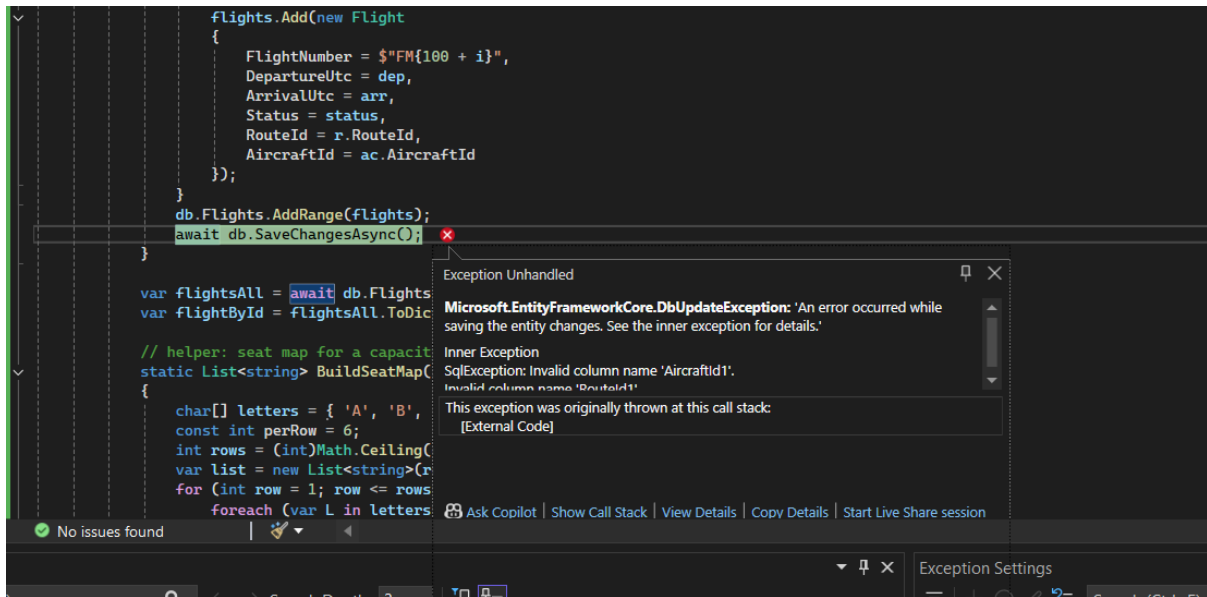
Solve 👍

```

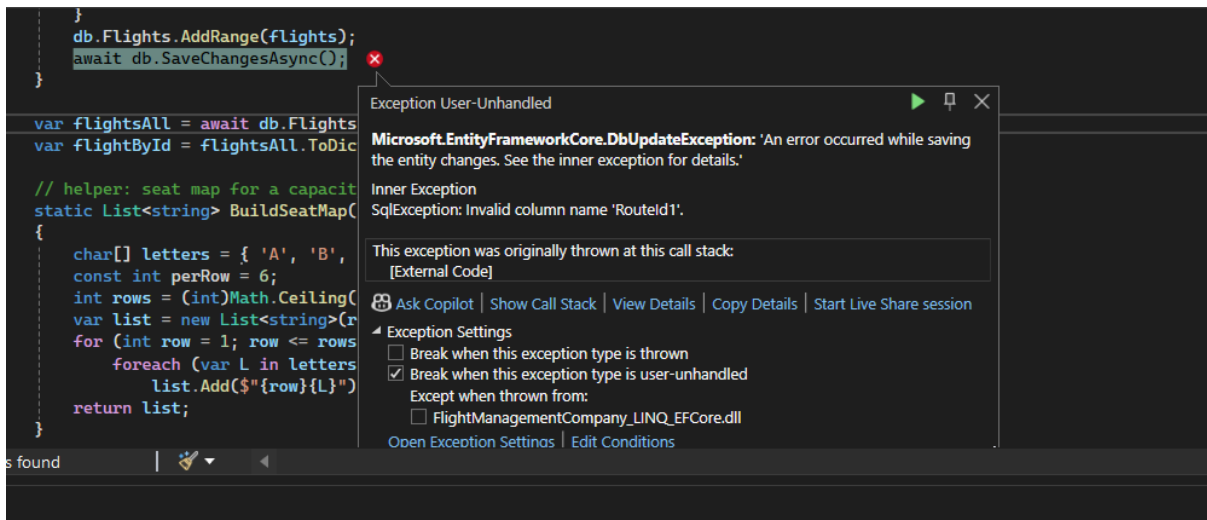
using FlightManagementCompany_LINQ_EFCore.Models; // Ensure this
namespace matches your AircraftMaintenance model's namespace

```

Error7:



## Error 8:



## Error 9:

Introducing FOREIGN KEY constraint 'FK\_Tickets\_Bookings\_BookingId1' on table 'Tickets' may cause cycles or multiple cascade paths. Specify ON DELETE NO ACTION or ON UPDATE NO ACTION, or modify other FOREIGN KEY constraints.

Could not create constraint or index. See previous errors.

## Error 10:

Could not create constraint or index. See previous errors.

```
b.HasOne<Ticket>()
    .WithMany()
    .HasForeignKey(x => x.TicketId)
    .onDelete>DeleteBehavior.Cascade) // change to Restrict
    .HasConstraintName("FK_Baggages_Tickets_TicketId");
```

[illegible]

That stack trace is 100% because your DB column **CrewMembers.Role** is still **INT**, while your model now stores **strings** ("Pilot", ...). Fix by making the DB column **nvarchar(20)**.

```
-- 1) Drop old check constraint if present
```

```

IF EXISTS (SELECT 1 FROM sys.check_constraints WHERE
name='CK_CrewMember_Role' AND
parent_object_id=OBJECT_ID('dbo.CrewMembers'))
    ALTER TABLE dbo.CrewMembers DROP CONSTRAINT CK_CrewMember_Role;

```

```

-- 2) Change column INT -> NVARCHAR(20)
ALTER TABLE dbo.CrewMembers
ALTER COLUMN [Role] NVARCHAR(20) NOT NULL;

```

```

-- 3) If rows exist and still have numbers, map them to strings
UPDATE dbo.CrewMembers
SET [Role] = CASE [Role]
    WHEN '0' THEN 'Pilot'
    WHEN '1' THEN 'CoPilot'
    WHEN '2' THEN 'FlightAttendant'
    ELSE [Role]
END;

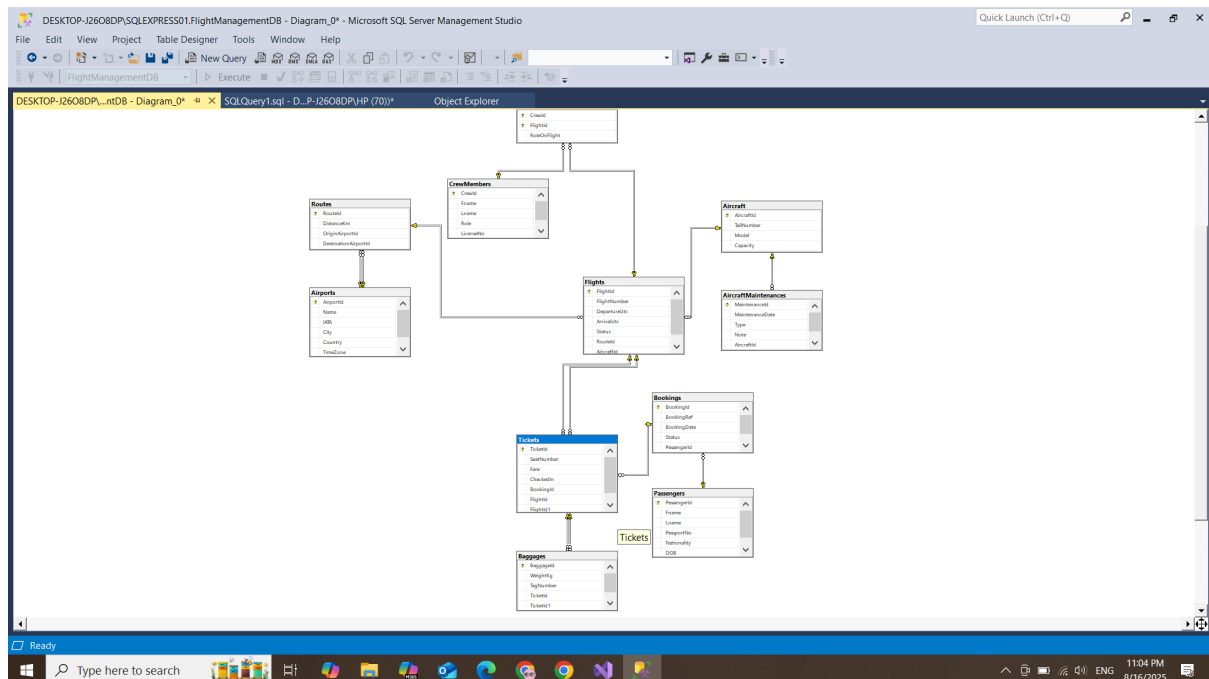
```

```

-- 4) Re-add string-based check constraint
ALTER TABLE dbo.CrewMembers
ADD CONSTRAINT CK_CrewMember_Role
CHECK ([Role] IN ('Pilot','CoPilot','FlightAttendant'));

```

Logic error in the data base:



Solve 🙌

Error 12:

Seeding failed: Invalid column name 'TicketId1'.

Solve:

```
modelBuilder.Entity<Baggage>(b =>
{
    b.HasKey(x => x.BaggageId);
    b.Property(x => x.TicketId).IsRequired();

    b.HasOne(x => x.Ticket)
        .WithMany(t => t.Baggages)           // <-- bind to collection
        .HasForeignKey(x => x.TicketId)
        .OnDelete(DeleteBehavior.Cascade)
        .HasConstraintName("FK_Baggages_Tickets_TicketId");
});
```

Change to 👍

While **do NOT have Ticket.Baggages**

Then keep `.WithMany()` and make sure there is **no** Baggages collection on Ticket and **no** data annotations (`[InverseProperty]`, duplicate navs, etc.) that would create a second relationship:

```
modelBuilder.Entity<Baggage>(b =>
{
    b.HasKey(x => x.BaggageId);
    b.Property(x => x.TicketId).IsRequired();

    b.HasOne(x => x.Ticket)
        .WithMany()                       // <-- no collection at all
        .HasForeignKey(x => x.TicketId)
        .OnDelete(DeleteBehavior.Cascade)
        .HasConstraintName("FK_Baggages_Tickets_TicketId");
});
```