

# Entity Framework Interview Questions & Answers

EF 6.x



**By Shailendra Chauhan**

Microsoft MVP, Founder & CEO - Dot Net Tricks

 **DotNetTricks**

# Entity Framework Interview Questions & Answers

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## Release History

- Initial Release 1.0.0 - 18<sup>th</sup> Jan 2019



# About Dot Net Tricks

Dot Net Tricks is founded by Shailendra Chauhan (Microsoft MVP), in Jan 2010. Dot Net Tricks came into existence in form of a blog post over various technologies including .NET, C#, SQL Server, ASP.NET, ASP.NET MVC, JavaScript, Angular, Node.js and Visual Studio etc.

The company which is currently registered by a name of Dot Net Tricks Innovation Pvt. Ltd. came into the shape in 2015. Dot Net Tricks website has an average footfall on the tune of 300k+ per month. The site has become a cornerstone when it comes to getting skilled-up on .NET technologies and we want to gain the same level of trust in other technologies. This is what we are striving for.

We have a very large number of trainees who have received training from our platforms and immediately got placement in some of the reputed firms testifying our claims of providing quality training. The website offers you a variety of free study material in form of articles.

## Dot Net Tricks Training Solutions

Dot Net Tricks provide you training in traditional as well as new age technologies, via various formats.

### Master Courses (Instructor-led)

For a beginner who needs regular guidance, we have a fully packed Master Courses. They are almost equal to semester courses taught in engineering colleges when it comes to length, breadth of content delivery, the only difference instead of 5-6 months, they take approx. 16-weekend classes (2 months).

The detail about Master courses can be found here: <https://www.dotnettricks.com/instructor-led-courses>

### Hands-On Learning (Learn to Code)

Dot Net Tricks offers hands-on learning courses, which give you the confidence to code and equally helpful to work in real-life scenarios. This course is composed with hands-on exercise using IDE or cloud labs so that you can do hands-on practice on everything learned on this platform. While creating these courses we have ensured that quality of courses doesn't get compromise at any parameter, and they also will be able to produce the same results as our other course formats, given the fact you will be able to put your own honest effort.

The detail about Hands-On Learning courses can be found here: <https://www.scholarhat.com>

### Skill Bootcamps (Instructor-led)

Professionals who don't have two months' time and want to get skilled up in least possible time due to some new project that their company has to take in very near future, we have designed Skill Bootcamps Concept, where you will get trained on consecutive days in fast-paced manner, where our full focus is going to be on hands-on delivery of technological exercises. Where you will be going to gain confidence to handle any particular technology on an enterprise scale. In short, if I say, Skill Bootcamps are actually our Master's program minus theory.

The detail about Skill Bootcamps can be found here: <https://www.dotnettricks.com/skill-bootcamp>

## Self-paced Courses (Video Courses)

Dot Net Tricks offers the Self-paced courses, which give you the liberty to study at your own pace, time and place. We understand everyone has their own comfort zone, some of you can afford to dedicate 2 hours a day, some of you not. Keeping this thing in mind, we created these self-paced courses. While creating these courses we have ensured that quality of courses doesn't get compromise at any parameter, and they also will be able to produce the same results as our other course formats, given the fact you will be able to put your own honest effort.

The detail about Self-paced courses can be found here: <https://www.dotnettricks.com/self-paced-courses>

## Corporate Training (Online and Classroom)

Dot Net Tricks having a pool of mentors who help the corporate to enhance their employment skills as per changing technology landscape. Dot Net Tricks offers customized training programs for new hires and experienced employees through online and classroom mode. As a trusted and resourceful training partner, Dot Net Tricks helps the corporate to achieve success with its industry-leading instructional design and customer training initiatives.

Apart from these, we also provide on-demand boot camps and personalized project consultation.

The detail about Corporate Training can be found here: <https://www.dotnettricks.com/corporate-training>

## Learning Platforms

We have very robust technology platforms to answer the needs of all our trainees, no matter in which program they have enrolled. We offer two self-intuitive Learning Management Systems (LMS), which help to our learners to learn code by doing and evaluates their learning.

We offer the following two Learning Platforms for learning technologies:

1. Dot Net Tricks: <https://www.dotnettricks.com>
2. Scholar Hat: <https://www.scholarhat.com>

# Dedication

*My mother Mrs Vriksha Devi and my wife Reshu Chauhan deserve to have their name on the cover as much as I do for all their support made this possible. I would like to say thanks to all my family members Virendra Singh(father), Jaishree and Jyoti(sisters), Saksham and Pranay(sons), friends, to you and to readers or followers of my articles at <https://www.dotnettricks.com/mentors/shailendra-chauhan> to encourage me to write this book.*

**-Shailendra Chauhan**



# Introduction

Writing a book has never been an easy task. It takes a great effort, patience and consistency with strong determination to complete it. Also, one should have a depth knowledge over the subject is going to write.

**So, what where my qualification to write this book?** My qualification and inspiration come from my enthusiasm for and the experience with the technology and from my analytic and initiative nature. Being a trainer, analyst, consultant and blogger, I have thorough knowledge and understandings of .NET technologies. My inspiration and knowledge have also come from many years of my working experience and research over it.

## What This Book Is

EF is an O/RM framework to query the database in an object-oriented fashion. This book will teach you Entity Framework concepts from scratch to advance with the help of Interview Questions & Answers. Here, you will about the EF fundamentals, data modelling approaches, relationship, database migrations and querying database. This book covers Entity Framework version 1.x, 4.x, 5.x and 6.x.

## What You'll Learn

This book is for .NET developers who are looking for a change or want to make a bright future in Entity Framework. This book covers the interview questions on the following topics:

- Introduction to O/RM
- Entity Framework version history.
- EF core features.
- Entity Framework Architecture.
- Data Modelling approaches: Database First, Model First and Code First.
- Defining Relationship among Entities using the Code First Approach.
- Entity Framework Inheritance.
- Entity Life Cycle and its methods.
- Defining Database Relationships like as 1:1, 1:M, M:M
- Database Migrations for DB migration and rollback.
- Entity loading: Eager, Lazy and Explicit Loading.
- Executing Plain SQL commands.
- Using Transactions with Entity Framework.

**Our best wishes always with you for your learning and growth!**

# About the Author

Shailendra Chauhan - An Entrepreneur, Author, Architect, Corporate Trainer, and Microsoft MVP



He is the **Founder and CEO** of Dot Net Tricks which is a brand when it comes to e-Learning. Dot Net Tricks provides training and consultation over an array of technologies like **Cloud, .NET, Angular, React, Node and Mobile Apps development**. He has been awarded as **Microsoft MVP** three times in a row (2016-2018).

He has changed many lives from his writings and unique training programs. He has a number of most sought-after books to his name which have helped job aspirants in **cracking tough interviews** with ease.

Moreover, and to his credit, he has delivered **1000+ training sessions** to professionals worldwide in Microsoft .NET technologies and other technologies including JavaScript, AngularJS, Node.js, React and NoSQL Databases. In addition, he provides **Instructor-led online training, hands-on workshop** and **corporate training** programs.

**Shailendra** has a strong combination of **technical skills and solution development for complex application architecture with proven leadership and motivational skills** have elevated him to world-renowned status, placing him at the top of the list of most sought-after trainers.

**"I always keep up with new technologies and learning new skills to deliver the best to my students,"** says Shailendra Chauhan, he goes on to acknowledge that the betterment of his followers and enabling his students to realize their goals are his prime objective and a great source of motivation and satisfaction.

Shailendra Chauhan - **"Follow me and you too will have the key that opens the door to success"**

# How to Contact Us

Although the author of this book has tried to make this book as accurate as it possible but if there is something strikes you as odd, or you find an error in the book please drop a line via e-mail.

The e-mail addresses are listed as follows:

- [mentor@dotnettricks.com](mailto:mentor@dotnettricks.com)
- [info@dotnettricks.com](mailto:info@dotnettricks.com)

We always happy to hear from our readers. Please provide your valuable feedback and comments!

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# Table of Contents

<b>Entity Framework Interview Questions &amp; Answers .....</b>	<b>1</b>
About Dot Net Tricks.....	2
Dot Net Tricks Training Solutions.....	2
Dedication.....	4
Introduction .....	5
About the Author .....	6
How to Contact Us.....	7
<b>Introducing Entity Framework .....</b>	<b>12</b>
Q1.    What is ADO.NET Entity Framework? .....	12
Q2.    Explain the evolution history of ADO.NET Entity Framework? .....	12
Q3.    What is O/RM? .....	13
Q4.    What are the main components of an O/RM?.....	13
Q5.    Why use O/RM?.....	13
Q6.    What is the O/RMs you can use with .NET based applications? .....	13
Q7.    What is Dapper? .....	13
Q8.    What is Micro O/RMs? .....	13
Q9.    What are the advantages or benefits of Entity Framework? .....	13
Q10.   Explain Entity Framework Architecture?.....	14
Q11.   How to handle SQL injection attacks in Entity Framework? .....	15
Q12.   What are the differences between ADO.NET and Entity Framework? .....	15
Q13.   What are the differences between LINQ to SQL and Entity Framework?.....	16
<b>Database Modelling.....</b>	<b>17</b>
Q1.    What are various approaches to domain modelling in Entity Framework?.....	17
Q2.    What is Code First approach?.....	17
Q3.    What are the advantages of Code First? .....	17
Q4.    What is the Model First approach? .....	18
Q5.    What are the advantages of Model First?.....	18
Q6.    What is Database First? .....	18
Q7.    What are the advantages of the Database First approach? .....	18
Q8.    What are the types of entities in EF? .....	19

Q9.	What are POCO classes? .....	19
Q10.	What is the proxy object?.....	19
Q11.	How to disable dynamic proxy in EF? .....	19
Q12.	How to decide which Database modelling approach will suit you? .....	20
Q13.	What is the difference between POCO and Code First/Code Only? .....	20
Q14.	What is EDM or Entity Data Model?.....	20
Q15.	What is the role of EDM Wizard or Entity Data Model Wizard? .....	21
Q16.	What is the purpose of EDM or .edmx file? .....	21
Q17.	Can we edit/modify EDM or .edmx file? .....	21
Q18.	What is pluralize or singularize object names option in Entity Data Model? .....	21
Q19.	What are T4 templates? .....	22
Q20.	What is the role of T4 templates in Entity framework? .....	23
Q21.	Why Entity Framework is slow? .....	24
Q22.	How to improve EF performance? .....	24
Q23.	Who is responsible for tracking changes in an entity?.....	25
Q24.	What is the role of ObjectStateManager? .....	25
<b>Relationships .....</b>		<b>26</b>
Q1.	What is EntityClient? .....	26
Q2.	What is Entity Type?.....	26
Q3.	What is Entity Container?.....	27
Q4.	What is Entity Set?.....	27
Q5.	What is Association Set? .....	27
Q6.	What is Entity Key?.....	27
Q7.	What is Association?.....	28
Q8.	What Association does EF support? .....	28
Q9.	What is foreign key association? .....	28
Q10.	What is Independent association? .....	29
Q11.	What is Complex Type? .....	29
Q12.	What is scalar property?.....	31
Q13.	What is navigation property? .....	31
Q14.	How to define a navigation property using EF Code First? .....	31

Q15.	What are the various Entity States in EF? .....	32
Q16.	Explain Entity Life Cycle? .....	32
Q17.	What are different types of inheritance in Entity Framework? .....	33
Q18.	What is TPH inheritance in EF?.....	33
Q19.	What is TPT inheritance in EF? .....	34
Q20.	What is TPC inheritance in EF? .....	36
Q21.	What is DbContext API and how it works?.....	37
Q22.	What is DLL for DbContext API? .....	37
Q23.	What isObjectContext API and how it works?.....	38
Q24.	What are the differences between ObjectContext API and DbContext API?.....	38
Q25.	What are various approaches in Code First for model designing?.....	38
Q26.	What is fluent API and how it is different from data annotations? .....	39
Q27.	Which method is required to configure fluent API?.....	39
Q28.	What C# Datatype is mapped with which Datatype in SQL Server? .....	39
Q29.	Give some example to define mapping using fluent API?.....	39
Q30.	What default relationship convention EF6 supports?.....	40
Q31.	How to define mapping using data annotation in Entity Framework? .....	40
Q32.	How to define One-to-Zero-or-One (1:0 or 1:1) mapping in Entity Framework? .....	40
Q33.	How to define One-to-Many (1:m) mapping in Entity Framework? .....	41
Q34.	How to define Many-to-Many (m:m) mapping in Entity Framework?.....	42
Q35.	How to define CUD Operations using Stored Procedures in EF 6? .....	43
<b>Migrations .....</b>		<b>44</b>
Q1.	What is Code First Migrations in Entity Framework?.....	44
Q2.	What are the various Code First Database initializers?.....	44
Q3.	Why use Database Migrations?.....	45
Q4.	Can you create custom database Initializers in Entity Framework Code First? .....	45
Q5.	Explain step by step Code First Migrations in Entity Framework?.....	45
Q6.	How to update existing Database using Code First Migrations?.....	48
Q7.	What is Migrations History Table? .....	49
Q8.	How to Undo/Rollback a Migrations? .....	49
Q9.	What is automatic migration? .....	50

Q10. How to disable automatic migration? .....	50
Q11. What is Seed Data in EF Code First? .....	50
<b>Querying Database .....</b>	<b>51</b>
Q1. What is DbSet? .....	51
Q2. What is ObjectSet? .....	51
Q3. What is EntitySQL? .....	51
Q4. How EntitySQL is different from T-SQL? .....	51
Q5. What is SQL injection attack? .....	51
Q6. What is Lazy/Deferred Loading? .....	52
Q7. How to turn off Lazy/Deferred Loading? .....	53
Q8. What is Eager Loading? .....	53
Q9. How to execute plain SQL in EF6? .....	54
Q10. How to use DbSet.SqlQuery() method? .....	54
Q11. How to use DbContext.Database.SqlQuery() method? .....	54
Q12. How to use DbSet.Database.ExecuteSqlCommand () method? .....	54
Q13. How to load an Entity explicitly in EF? .....	54
Q14. How to query and save your data asynchronously in EF 6? .....	55
Q15. Write an asynchronous query in EF 6? .....	55
Q16. Write a query to save data in async way in EF 6? .....	55
Q17. How does EF support Transaction? .....	55
Q18. How to use a transaction explicitly in EF? .....	55
<b>References .....</b>	<b>56</b>