

Object Explorer: D582BC2AC00BF90.ItiWiz - dbo.Table_1*

Column Name	Data Type
Id	int
Name	varchar(50)
Address	varchar(200)
Cont_Person	varchar(300)

Choose Name dialog: Enter a name for the table: Airline

Column Properties: Data Type: int, Table Designer: Collation: <database default>, Computed Column Specification: Condensed Data Type: int, Description: Deterministic: Yes, DTS-published: No, Full-text Specification: Has Non-SQL Server Subscriber: No, Identity Specification: (Is Identity): Yes, Identity Increment: 1, Identity Seed: 1

```

Create table Airline(
  Id int primary key identity(1,1),
  Name varchar(50) not null,
  Address Varchar(200),
  Cont_person Varchar(300), -- it can be null
);

Create table Airline_Phones(
  AL_id int,
  Phone varchar(20),
  primary key (AL_id , Phone)
);

Create table [Transaction](

```

Messages: Commands completed successfully. Completion time: 2025-05-16T21:31:44.1588301+03:00

Object Explorer: D582BC2AC00BF90.ItiWiz - dbo.Table_1*

Column Name	Data Type
AL_id	int
Phone	varchar(50)

Choose Name dialog: Enter a name for the table: Airline_phones

Column Properties: Data Type: int, Table Designer: Collation: <database default>, Computed Column Specification: Condensed Data Type: int, Description: Deterministic: Yes, DTS-published: No, Full-text Specification: Has Non-SQL Server Subscriber: No, Identity Specification: (Is Identity): Yes, Identity Increment: 1, Identity Seed: 1

```

Create table Airline_Phones(
  AL_id int,
  Phone varchar(20),
  primary key (AL_id , Phone)
);

Create table [Transaction](
  Id int primary key identity (1,1),
  Description varchar (200),
  Amount decimal (12,2) not null,
  Date DATE,
  AL_id int
);

```

Messages: Commands completed successfully.

Object Explorer: D582BC2AC00BF90.ItiWiz - dbo.Table_1*

Column Name	Data Type
ID	int
Description	varchar(200)
Amount	decimal(12, 0)
Date	date
AL_id	int

Choose Name dialog: Enter a name for the table: Transaction

Column Properties: Data Type: int, Table Designer: Collation: <database default>, Computed Column Specification: Condensed Data Type: int, Description: Deterministic: Yes, DTS-published: No, Full-text Specification: Has Non-SQL Server Subscriber: No, Identity Specification: (Is Identity): Yes, Identity Increment: 1, Identity Seed: 1

```

Create table [Transaction](
  Id int primary key identity (1,1),
  Description varchar (200),
  Amount decimal (12,2) not null,
  Date DATE,
  AL_id int
);

Create table Employee (
  Id int primary key identity (1,1),
  Name varchar(50) not null,
  Address Varchar (100),
  Gender Char(1) check(Gender in ('F',
  Position Varchar(50),
  BD_Year int,
  BD_Month int check (BD_Month >= 1 AN

```

Messages: Commands completed successfully.

Object Explorer: D582BC2AC00BF90.IWiz - dbo.Table_1*

Column Name	Data Type
ID	int
Name	varchar(50)
Address	varchar(100)
Gender	char(1)
Position	varchar(50)
BD_Year	int
BD_Month	int
BD_Day	int
AL_id	int

Choose Name dialog: Enter a name for the table: Employee

```

-- Employee table definition
Create table Employee (
    Id int primary key identity (1,1),
    Name varchar(50) not null,
    Address Varchar (100),
    Gender Char(1) check(Gender in ('F',
    Position Varchar(50),
    BD_Year int,
    BD_Month int check (BD_Month >= 1 AN
    BD_Day int check (BD_Day >= 1 ANd BD
    AL_id int
);

-- Emp_Qualifications table definition
Create table Emp_Qualifications (

```

Messages: Commands completed successfully.

Object Explorer: D582BC2AC00BF90.IWiz - dbo.Table_1*

Column Name	Data Type
Emp_id	int
Qualifications	varchar(50)

Choose Name dialog: Enter a name for the table: Emp_qualifications

```

-- Emp_Qualifications table definition
Create table Emp_Qualifications (
    Emp_id int,
    Qualifications Varchar(100),
    Primary Key (Emp_id, Qualifications)
);

-- Route table definition
Create table Route(
    Id int primary key identity(1,1),

```

Messages: Commands completed successfully.

Object Explorer: D582BC2AC00BF90.IWiz - dbo.Table_1*

Column Name	Data Type
Id	int
Distance	decimal(20, 2)
Destination	varchar(50)
Origin	varchar(50)
Classification	varchar(50)

Choose Name dialog: Enter a name for the table: Route

```

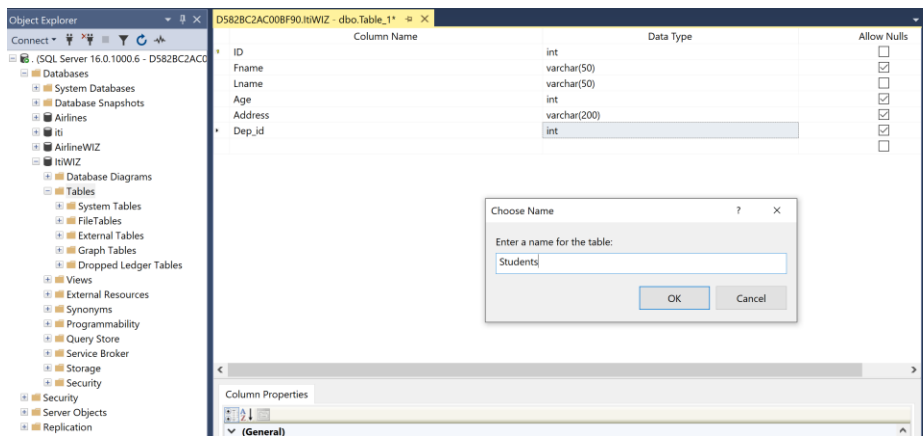
-- Route table definition
Create table Route(
    Id int primary key identity(1,1),
    Distance decimal (20,2) check (Distance > 0 )
    Destination varchar (50) not null,
    Origin varchar (50) not null,
    Classification varchar (50)
);

-- Aircraft_Routes table definition
Create table Aircraft_Routes (
    AC_id int,
    Route_id int,
    Departure varchar (50) not null,
    Num_of_Pass int check (Num_of_Pass >=0), -- C
    Price decimal(10,2) check (Price >= 0 ), -- m
    Arrival Datetime,
    Primary key (AC_id , Route_id)
);

-- Adding the fK constraints

```

Messages: Commands completed successfully.

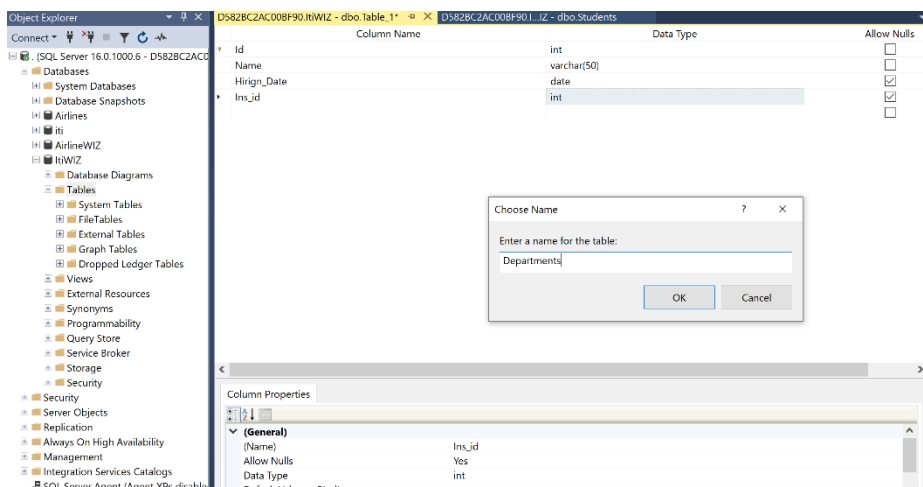


```
-- Creating the tables in the database
CREATE TABLE Students(
  Id int primary key identity (1,1),
  FName varchar(50),
  LName varchar(50) not null,
  Age int check (Age >= 15 AND Age <= 50 ),
  Address varchar(200),
  Dep_id int
);

CREATE TABLE Departments(
  Id int primary key identity(1,1),
  Name varchar(50) not null,
  Hiring_Date date,
  Ins_id int
);

CREATE TABLE Instructors(
  ID int primary key identity(1,1),
  Name varchar(50) not null,
  Address varchar(50),
  Bouns decimal(10,2),
  Salary decimal (10,2) not null,
  Hour_rate decimal(10,2),
  Dep_id int
);

CREATE TABLE Courses (
```

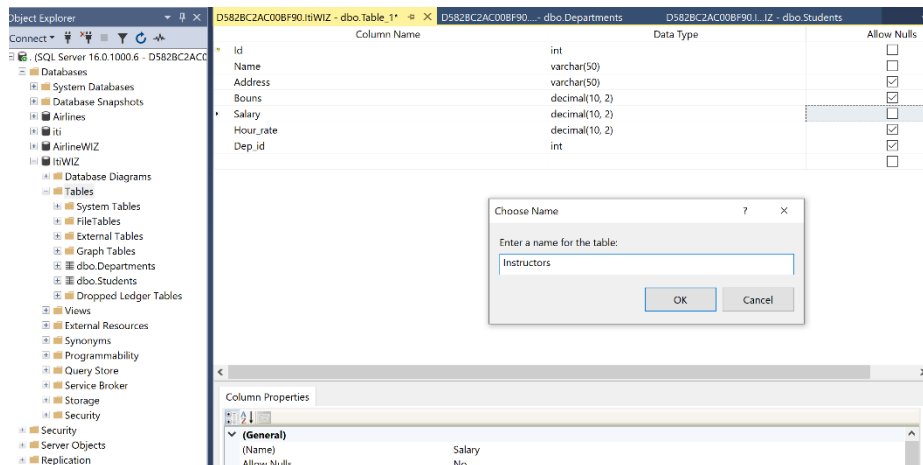


```
-- Creating the tables in the database
CREATE TABLE Students(
  Id int primary key identity (1,1),
  FName varchar(50),
  LName varchar(50) not null,
  Age int check (Age >= 15 AND Age <= 50 ),
  Address varchar(200),
  Dep_id int
);

CREATE TABLE Departments(
  Id int primary key identity(1,1),
  Name varchar(50) not null,
  Hiring_Date date,
  Ins_id int
);

CREATE TABLE Instructors(
  ID int primary key identity(1,1),
  Name varchar(50) not null,
  Address varchar(50),
  Bouns decimal(10,2),
  Salary decimal (10,2) not null,
  Hour_rate decimal(10,2),
  Dep_id int
);

CREATE TABLE Courses (
  Id int primary key identity(1,1),
  Name varchar(50) not null,
  Duration int check( Duration > 0 ), -- days
  Description varchar(300),
  Top_id int
);
```



```
LName varchar(50) not null,
Age int check (Age >= 15 AND Age <= 50 ),
Address varchar(200),
Dep_id int
);

CREATE TABLE Departments(
  Id int primary key identity(1,1),
  Name varchar(50) not null,
  Hiring_Date date,
  Ins_id int
);

CREATE TABLE Instructors(
  ID int primary key identity(1,1),
  Name varchar(50) not null,
  Address varchar(50),
  Bouns decimal(10,2),
  Salary decimal (10,2) not null,
  Hour_rate decimal(10,2),
  Dep_id int
);

CREATE TABLE Courses (
  Id int primary key identity(1,1),
  Name varchar(50) not null,
  Duration int check( Duration > 0 ), -- days
  Description varchar(300),
  Top_id int
);
```

```

Fname varchar(50),
Lname varchar(50) not null,
Age int check (Age >= 15 AND Age <= 50 ),
Address varchar(200),
Dep_id int
);

CREATE TABLE Departments(
    Id int primary key identity(1,1),
    Name varchar(50) not null,
    Hiring_Date date,
    Ins_id int
);

CREATE TABLE Instructors(
    Id int primary key identity(1,1),
    Name varchar(50) not null,
    Address varchar(50),
    Bouns decimal(10,2),
    Salary decimal (10,2) not null,
    Hour_rate decimal(10,2),
    Dep_id int
);

CREATE TABLE Courses (
    Id int primary key identity(1,1),
    Name varchar(50) not null,
    Duration int check( Duration > 0 ), -- d:
    Description varchar(300),
    Top_id int
);

CREATE TABLE Topic(
    Id int primary key identity(1,1),
    Name Varchar(50) not null
);

CREATE TABLE Stud_Course(

```

```

Id int primary key identity(1,1),
Name varchar(50) not null,
Duration int check( Duration > 0 ), -- d
Description varchar(300),
Top_id int

);

CREATE TABLE Topic(
Id int primary key identity(1,1),
Name Varchar(50) not null

);

CREATE TABLE Stud_Course(
Stud_id int,
Course_id int,
Grade decimal(5,2) check( Grade>= 0 AND
Primary Key (Stud_id, Course_id)

);

CREATE TABLE Course_Instructor (
Course_id int,
Inst_id int,
Evaluation decimal(5,2) check( Evaluatio
Primary Key (Course_id , Inst_id)

);

-- ADD FK constraints

Alter table Departments

```

```

);

CREATE TABLE Topic(
    Id int primary key identity(1,1),
    Name Varchar(50) not null
);

CREATE TABLE Stud_Course(
    Stud_id int,
    Course_id int,
    Grade decimal(5,2) check( Grade>= 0 AND
    Primary Key (Stud_id, Course_id)
);

CREATE TABLE Course_Instructor (
    Course_id int,
    Inst_id int,
    Evaluation decimal(5,2) check( Evaluati
    Primary Key (Course_id , Inst_id)
);

-- ADD FK constraints

Alter table Departments

```

Object Explorer

Connect * (SQL Server 16.0.1000.6 - D582BC2) ^

Databases

- System Databases
- Database Snapshots
- Airlines
- rti
- AirlineWIZ
- INWIZ
 - Database Diagrams
 - Tables
 - System Tables
 - File Tables
 - External Tables
 - Graph Tables
 - dbo.Courses
 - dbo.Departments
 - dbo.Instructors
 - dbo.Stud_Course
 - dbo.Students
 - dbo.Topic
 - Dropped Ledger Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store

Column Name Data Type Allow Nulls

Column Name	Data Type	Allow Nulls
Course_id	int	<input type="checkbox"/>
Inst_id	int	<input type="checkbox"/>
Evaluation	decimal(5, 2)	<input checked="" type="checkbox"/>

Choose Name

Enter a name for the table:

Course_Instructor

OK Cancel

```

CREATE TABLE Topic(
  Id int primary key identity(1,1),
  Name Varchar(50) not null
);

CREATE TABLE Stud Course(
  Stud_id int,
  Course_id int,
  Grade decimal(5,2) check( Grade >= 0 AND Gra
  Primary Key (Stud_id, Course_id)
);

CREATE TABLE Course_Instructor (
  Course_id int,
  Inst_id int,
  Evaluation decimal(5,2) check( Evaluation >
  Primary Key (Course_id , Inst_id)
);

-- ADD FK constraints

Alter table Departments
Add constraint FK_instructor_Departments
Foreign key( Ins_id ) references Instructors(Id
  
```

