create database FfdbDWStage

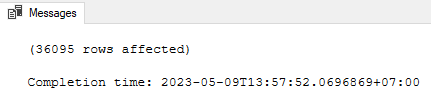
select p.passenger\_id, passportno, firstname, lastname, birthdate,

sex, street, city, zip, country, emailaddress, telephoneno

into dbo.FFDBStagePassengers

from ffdb1.dbo.passenger p join ffdb1.dbo.passengerdetails q

on p.passenger\_id = q.passenger\_id

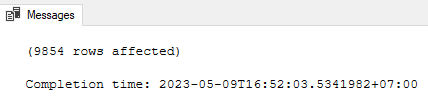


select p.airport\_id, iata, icao, p.[name], city, country, latitude, longitude

into dbo.FFDBStageAirports

from ffdb1.dbo.airport p join ffdb1.dbo.airport\_geo q

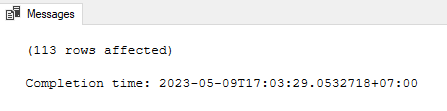
on p.airport\_id = q.airport\_id



select airline\_id, iata, airlinename, base\_airport

into dbo.FFDBStageAirlines

from ffdb1.dbo.airline

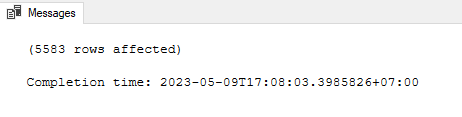


select airplane\_id, capacity, p.[type\_id], airline\_id, identifier, [description]

into dbo.FFDBStageAirplanes

from ffdb1.dbo.airplane p join ffdb1.dbo.airplane\_type q

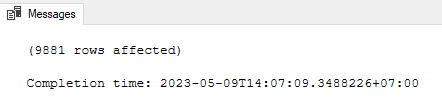
on p.[type\_id] = q.[type\_id]



select flightno, [from], [to], departure, arrival, airline\_id

into dbo.FFDBStageFlights

from ffdb1.dbo.flightschedule



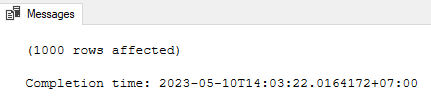
select employee\_id, firstname, lastname, birthdate,

sex, street, city, zip, country, emailaddress,

telephoneno, salary, department, username, [password]

into dbo.FFDBStageEmployees

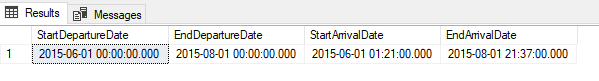
from ffdb1.dbo.employee

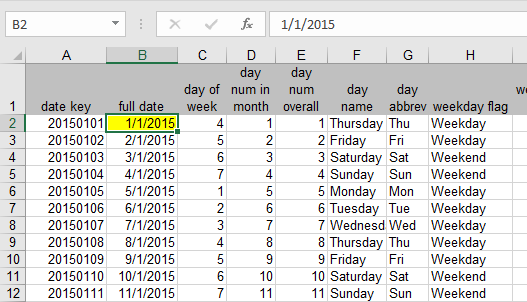


select min(departure) as StartDepartureDate, max(departure) as EndDepartureDate,

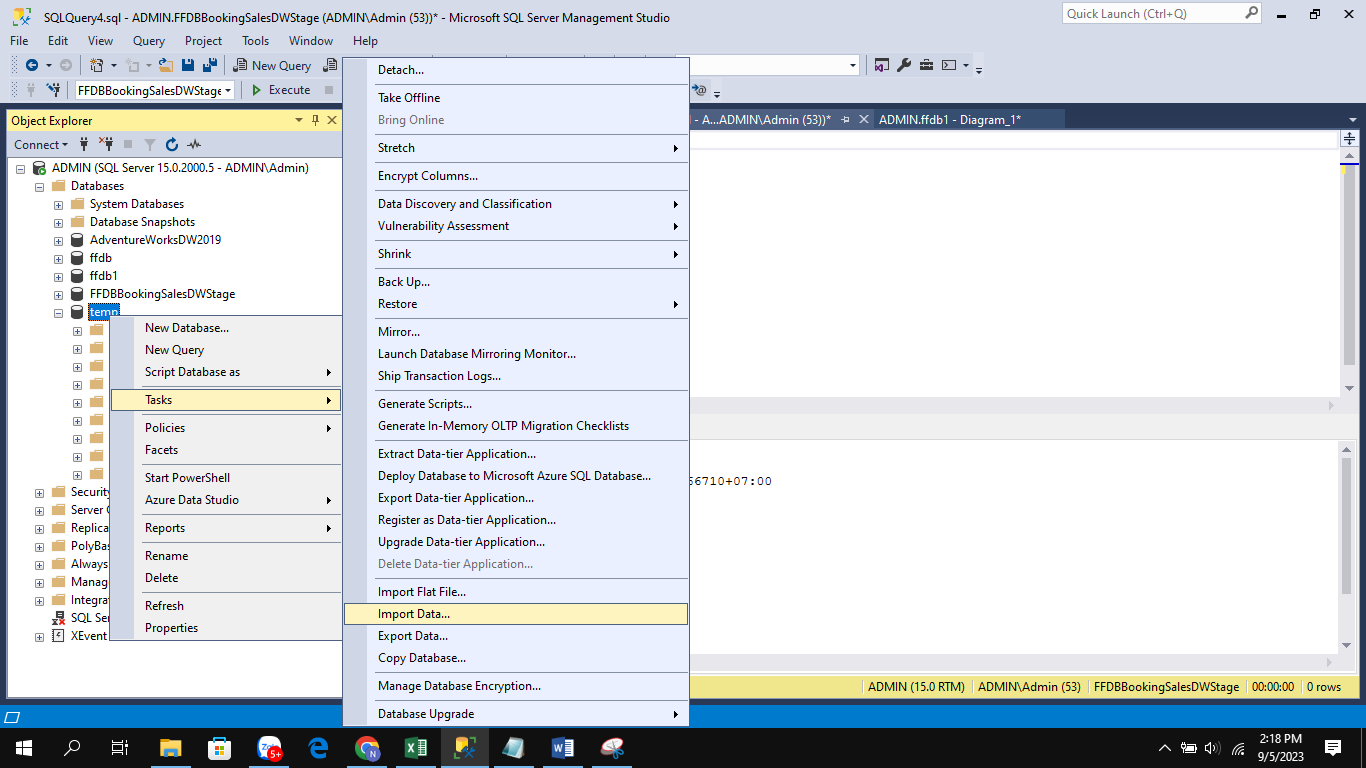
min(arrival) as StartArrivalDate, max(arrival) as EndArrivalDate

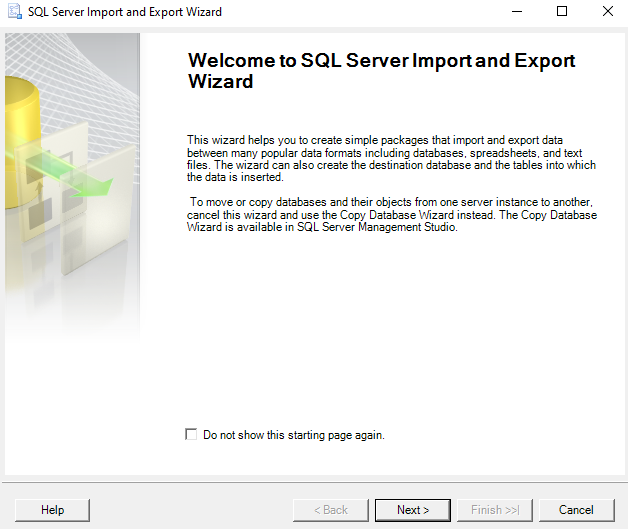
from ffdb1.dbo.flight

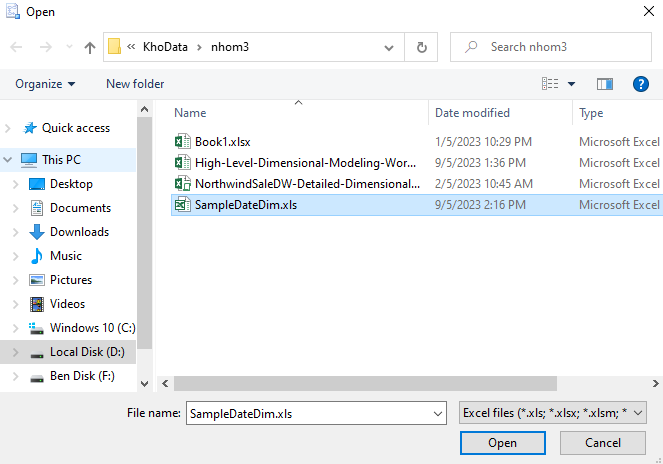


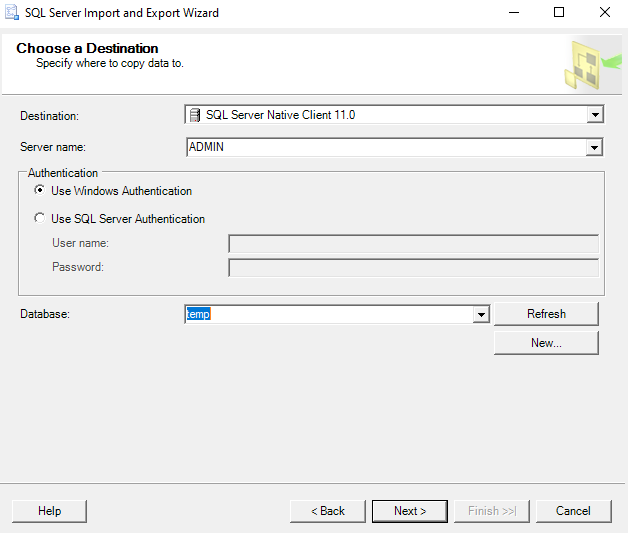


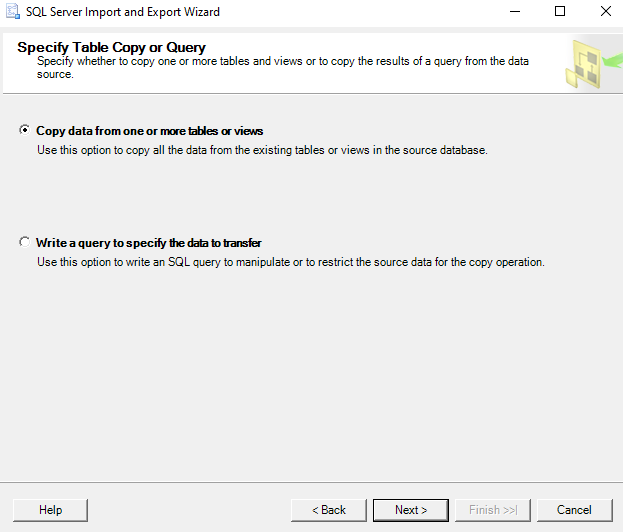
create database temp

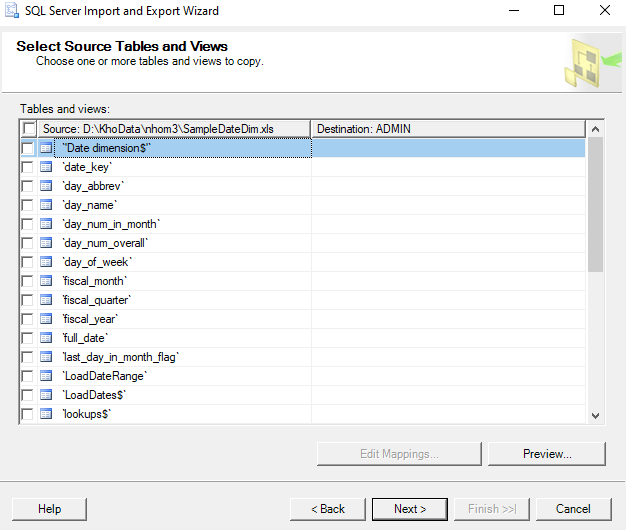


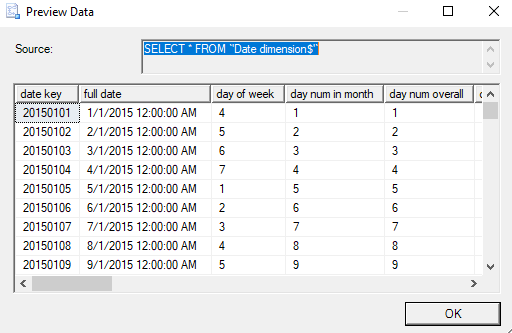


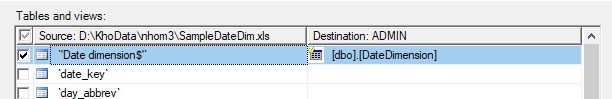


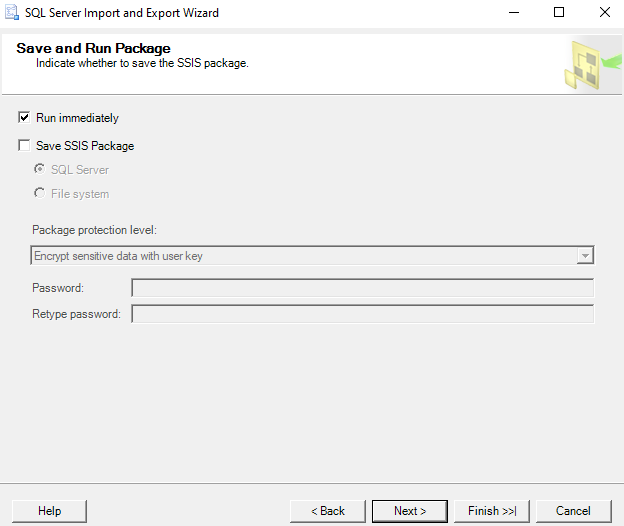


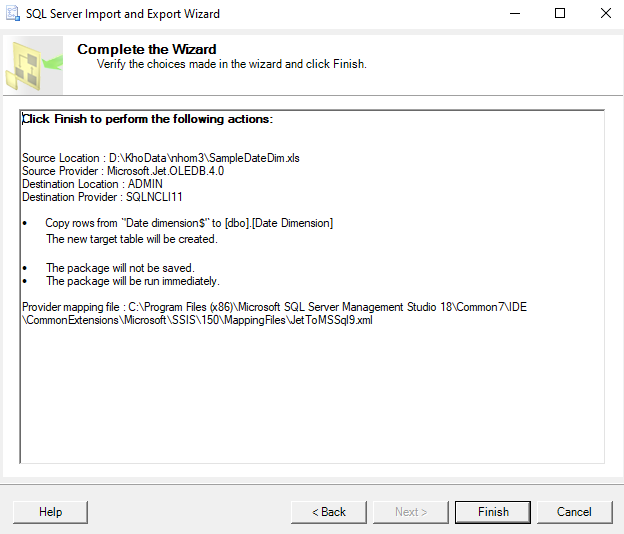


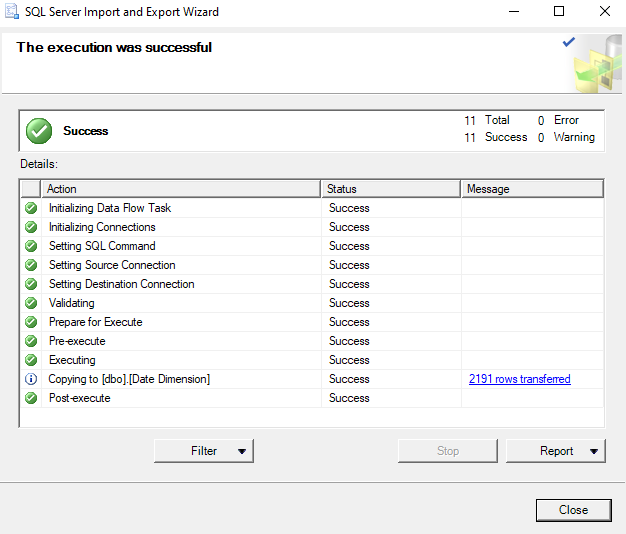


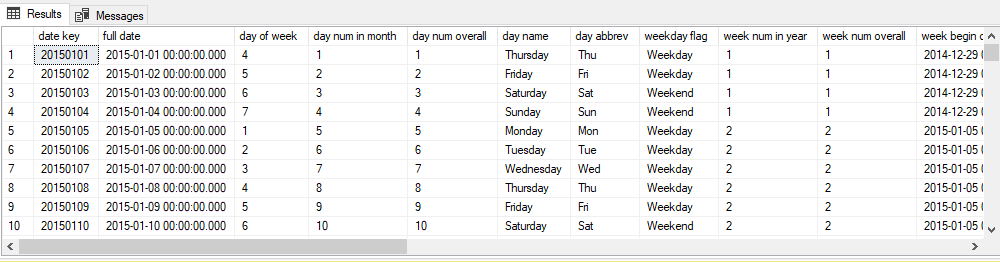








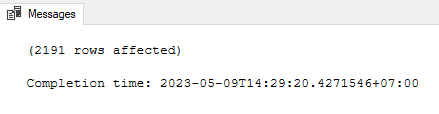




select \*

into dbo.FFDBStageDate

from temp.dbo.[DateDimension]



select booking\_id, q.flightno, passenger\_id, seat, price,

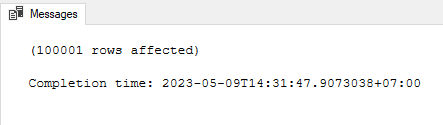
cast(departure as date) as departuredate,

cast(arrival as date) as arrivaldate

into dbo.FFDBStageBookingSales

from ffdb1.dbo.booking p join ffdb1.dbo.flight q

on p.flight\_id = q.flight\_id



select flight\_id, p.flightno, p.[from], p.[to],

q.departure, q.arrival,

p.airline\_id, airplane\_id,

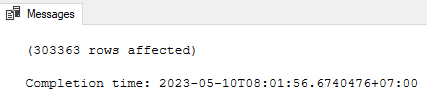
cast(p.departure as date) as departuredate,

cast(p.arrival as date) as arrivaldate

into dbo.FFDBStageFlightSchedule

from ffdb1.dbo.flight p join ffdb1.dbo.flightschedule q

on p.flightno = q.flightno



select employee\_id, firstname, lastname, birthdate,

sex, street, city, zip, country, emailaddress,

telephoneno, salary, department, username, [password]

into dbo.FFDBStageEmployeeSalary

from ffdb1.dbo.employee

create database FfdbDW

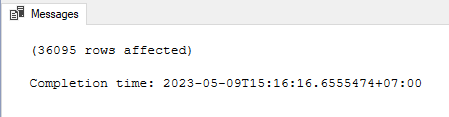
select passenger\_id as PassengerId, passportno as PassportNo, firstname as FirstName, lastname as LastName,

birthdate as BirthDate, sex as Sex, street as Street, city as City, zip as Zip, country as Country,

emailaddress as EmailAddress, telephoneno as TelephoneNo

into dbo.DimPassenger

from FfdbDWStage.dbo.FFDBStagePassengers



alter table DimPassenger

add PassengerKey int identity(1,1)

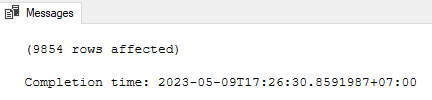
select airport\_id as AirportId, iata as IATA, icao as ICAO,

[name] as [AirportName], city as City, country as Country,

latitude as Iatitude, longitude as Iongitude

into dbo.DimAirport

from FfdbDWStage.dbo.FFDBStageAirports



alter table DimAirport

add AirportKey int identity(1,1)

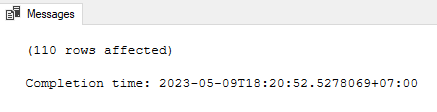
select airline\_id as AirlineId, p.iata as IATA,

airlinename as AirlineName, q.AirportKey as BaseAirport

into dbo.DimAirline

from FfdbDWStage.dbo.FFDBStageAirlines p join FfdbDW.dbo.DimAirport q

on p.base\_airport = q.AirportId



alter table DimAirline

add AirlineKey int identity(1,1)

select airplane\_id as AirplaneId, capacity as Capacity,

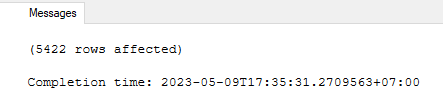
[type\_id] as TypeId, q.AirlineKey as Airline,

identifier as Identifier, [description] as [Description]

into dbo.DimAirplane

from FfdbDWStage.dbo.FFDBStageAirplanes p join FFdbDW.dbo.DimAirline q

on p.airline\_id = q.AirlineId



alter table DimAirplane

add AirplaneKey int identity(1,1)

select flightno as FlightNo, q.AirportKey as [From], r.AirportKey as [To],

departure as Departure, arrival as Arrival, s.AirlineKey as Airline

into dbo.DimFlight

from FfdbDWStage.dbo.FFDBStageFlights p join FfdbDW.dbo.DimAirport q

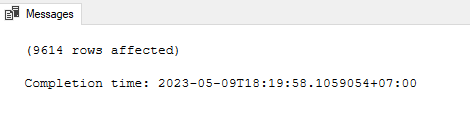
on p.[from] = q.AirportId

join FfdbDW.dbo.DimAirport r

on p.[to] = r.AirportId

join FfdbDW.dbo.DimAirline s

on p.airline\_id = s.AirlineId



alter table DimFlight

add FlightKey int identity(1,1)

select street as Street, city as City,

zip as Zip, country as Country

into dbo.DimAddress

from FfdbDWStage.dbo.FFDBStageEmployees

alter table DimAddress

add AddressKey int identity(1,1)

select department as Department

into dbo.DimDepartment

from FfdbDWStage.dbo.FFDBStageEmployees

alter table DimDepartment

add DepartmentKey int identity(1,1)

select employee\_id as EmployeeId, firstname as FirstName, lastname as LastName,

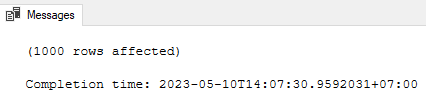
birthdate as BirthDate, sex as Sex, emailaddress as EmailAddress,

telephoneno as TelephoneNo,

username as UserName, [password] as [Password]

into dbo.DimEmployee

from FfdbDWStage.dbo.FFDBStageEmployees



alter table DimEmployee

add EmployeeKey int identity(1,1)

select

[date key] as DateKey, [full date] as [Date], [day of week] as DateOfWeek, [day name] as [DayName],

[day num in month] as [DayOfMonth],

[day num overall] as [DayOfYear], [week num in year] as WeekOfYear, [month name] as [MonthName],

[month] as MonthOfYear, [quarter] as [Quarter],

case

when [quarter] >= 1 and [quarter] <= 3 then 'First'

when [quarter] >= 4 and [quarter] <= 6 then 'Second'

when [quarter] >= 7 and [quarter] <= 9 then 'Third'

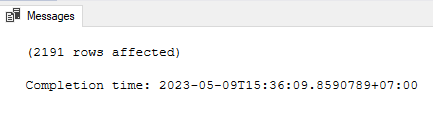
when [quarter] >= 10 and [quarter] <= 12 then 'Fourth'

end as [QuarterName],

[year] as [Year], [weekday flag] as IsAWeekday

into dbo.DimDate

from FfdbDWStage.dbo.FFDBStageDate



select r.FlightKey, q.PassengerKey, p.booking\_id as BookingId,

p.seat as Seat, p.price as Price,

Day(p.departuredate) + Month(p.departuredate) \* 100 + Year(p.departuredate) \* 10000 as DepartureDate,

Day(p.arrivaldate) + Month(p.arrivaldate) \* 100 + Year(p.arrivaldate) \* 10000 as ArrivalDate

into dbo.FactBookingSales

from FfdbDWStage.dbo.FFDBStageBookingSales p

join FfdbDW.dbo.DimPassenger q

on p.passenger\_id = q.PassengerId

join FfdbDW.dbo.DimFlight r

on p.flightno = r.FlightNo

select p.flight\_id as FlightId, q.FlightKey, r.AirportKey as [From], s.AirportKey as [To],

t.AirlineKey, u.AirplaneKey,

Day(p.departuredate) + Month(p.departuredate) \* 100 + Year(p.departuredate) \* 10000 as DepartureDate,

Day(p.arrivaldate) + Month(p.arrivaldate) \* 100 + Year(p.arrivaldate) \* 10000 as ArrivalDate

into dbo.FactFlightSchedule

from FfdbDWStage.dbo.FFDBStageFlightSchedule p join FfdbDW.dbo.DimFlight q

on p.flightno = q.FlightNo

join FfdbDW.dbo.DimAirport r

on p.[from] = r.AirportId

join FfdbDW.dbo.DimAirport s

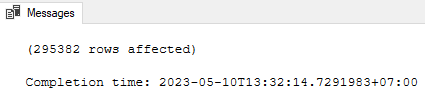
on p.[to] = s.AirportId

join FfdbDW.dbo.DimAirline t

on p.airline\_id = t.AirlineId

join FfdbDW.dbo.DimAirplane u

on p.airplane\_id = u.AirplaneId



alter table DimAirport

add primary key (AirportKey)

alter table DimAirline

add primary key (AirlineKey)

alter table DimAirplane

add primary key (AirplaneKey)

alter table DimFlight

add primary key (FlightKey)

alter table DimPassenger

add primary key (PassengerKey)

alter table DimDate

alter column DateKey int not null

alter table DimDate

add primary key (DateKey)

alter table DimAddress

add primary key (AddressKey)

alter table DimDepartment

add primary key (DepartmentKey)

alter table DimEmployee

add primary key (EmployeeKey)

alter table DimAirline

add foreign key (BaseAirport) references DimAirport(AirportKey)

alter table DimAirplane

add foreign key (Airline) references DimAirline(AirlineKey)

alter table DimFlight

add foreign key ([From]) references DimAirport(AirportKey)

alter table DimFlight

add foreign key ([To]) references DimAirport(AirportKey)

alter table DimFlight

add foreign key (Airline) references DimAirline(AirlineKey)

alter table FactBookingSales

add primary key (FlightKey, PassengerKey, BookingId)

alter table FactBookingSales

add foreign key (FlightKey) references DimFlight(FlightKey)

alter table FactBookingSales

add foreign key (PassengerKey) references DimPassenger(PassengerKey)

alter table FactBookingSales

add foreign key (DepartureDate) references DimDate(DateKey)

alter table FactBookingSales

add foreign key (ArrivalDate) references DimDate(DateKey)

alter table FactFlightSchedule

add primary key (FlightId, FlightKey, [From], [To], AirlineKey, AirplaneKey)

alter table FactFlightSchedule

add foreign key (FlightKey) references DimFlight(FlightKey)

alter table FactFlightSchedule

add foreign key ([From]) references DimAirport(AirportKey)

alter table FactFlightSchedule

add foreign key ([To]) references DimAirport(AirportKey)

alter table FactFlightSchedule

add foreign key (AirlineKey) references DimAirline(AirlineKey)

alter table FactFlightSchedule

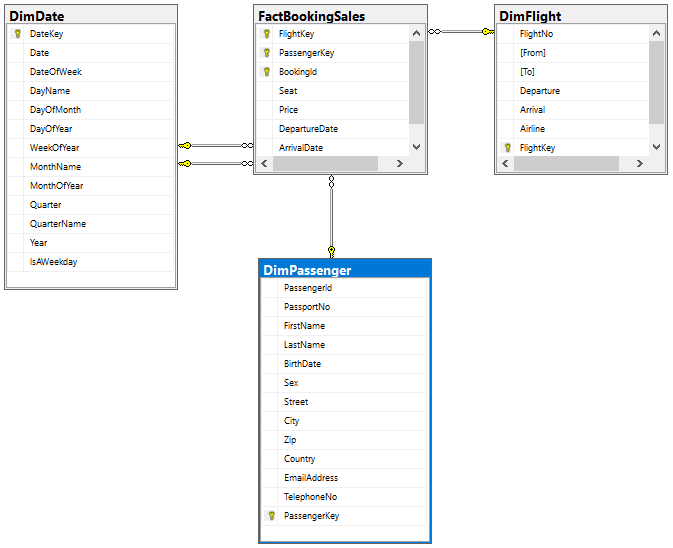
add foreign key (AirplaneKey) references DimAirplane(AirplaneKey)

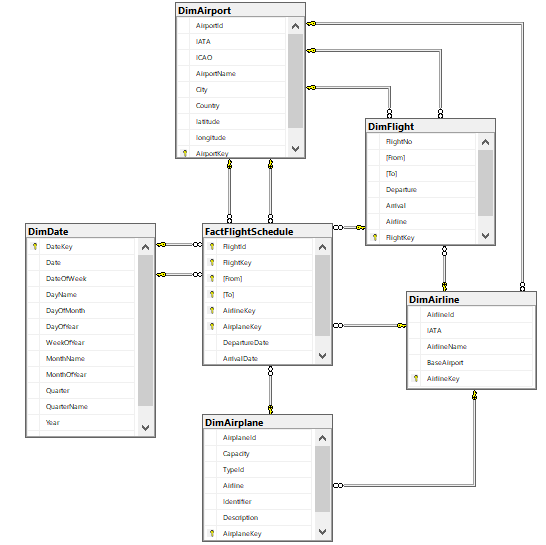
alter table FactFlightSchedule

add foreign key (DepartureDate) references DimDate(DateKey)

alter table FactFlightSchedule

add foreign key (ArrivalDate) references DimDate(DateKey)





select q.EmployeeKey, r.AddressKey, s.DepartmentKey, p.salary as Salary

into FfdbDW.dbo.FactEmployeeSalary

from FfdbDWStage.dbo.FFDBStageEmployeeSalary p join FfdbDW.dbo.DimEmployee q

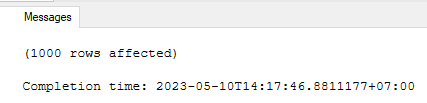
on p.employee\_id = q.EmployeeId

join FfdbDW.dbo.DimAddress r

on p.street = r.Street and p.city = r.City and p.zip = r.Zip and p.country = r.Country

join FfdbDW.dbo.DimDepartment s

on p.department = s.Department



alter table FactEmployeeSalary

add primary key (EmployeeKey,AddressKey,DepartmentKey)

alter table FactEmployeeSalary

add foreign key (EmployeeKey) references DimEmployee(EmployeeKey)

alter table FactEmployeeSalary

add foreign key (AddressKey) references DimAddress(AddressKey)

alter table FactEmployeeSalary

add foreign key (DepartmentKey) references DimDepartment(DepartmentKey)