**Data Base Design Project Templet for the Auto Shop**

**Introduction**

In this project I will be making a database for an Auto Shop Company. This project contains how I have used my business rules in an entity relationship diagram. It contains at least twelve business rules followed by twenty tables. The main purpose of this project is to demonstrate an example of a database for an auto company. It stores data for an auto shop company in an efficient way.

**Team**

I have done it alone and all the work is done by me. I have normalized all the tables into a third normal form. If there is any violation of 3NF then the reason is stated. In each table I have stated what my primary keys and foreign keys are. A template is given below.

**Naming Convention**

My naming convention are:

1. Every letter is capitalized.
2. Name of the table starts with a capital letter and content inside it should have a table name followed by a content example, the id of an EMPLOYEE is represented as EMP\_ID. Except DEPARTMENT can be represented as DEP and DEPENDENT is represented as DEPENDENT.
3. I have put \_ to separate words. Example is EMP\_ID.
4. Tables are descriptive and singular.
5. For more I have mentioned it in a data dictionary.
6. Numbers can not have dashes(-).
7. Name should contain only characters but not numbers.

**Business rules**

1. SHOP can have many DEPARTMENT\_HEAD.
2. DEPARTMENT can have only one DEPARTMENT\_HEAD.
3. DEPARTMENT\_HEAD has only one PERSONAL\_ASSISTANCE.
4. Only one EMPLOYEE can be PERSONAL\_ASISTANCE.
5. One DEPARTMENT can have many EMPLOYEE. And one EMPLOYEE is associated with only one DEPARTMENT.
6. One EMPLOYEE can have 0 or many DEPENDENT.
7. One EMPLOYEE strickly can have one TIME\_CARD.
8. EMPLOYEE can have one GENDER, either male or female or others but can be both.
9. EMPLOYEE can take care of many CUSTOMERS. But CUSTOMER cannot have many EMPLOYEE.
10. one EMPLOYEE can fix many CAR.
11. Car must have a ticket. CAR can have many TICKET.
12. AT one time one EMPLOYEE works on only one CAR. But an EMPLOYEE can work on many CAR over the day.
13. Each CUSTOMER must have ticket for their CAR. CUSTOMER can have many TICKETS.
14. CUSTOMER can have 0 or many CAR. IF the has two CAR, then new ticket must be issued.
15. CAR may need 0 or many PARTS.
16. PART can have many PART\_TYPE.
17. CUSTOMER can have 0 or many COUPONS. Same COUPONS cannot be used by many CUSTOMER.
18. CUSTOMER can have 0 or many INVOICE. But one INVOICE cannot get many CUSTOMER.
19. Many INVOICE can be recorded for multiple VENDOR. But one INVOICE can not go to multiple vendor.
20. INVOICE can be of many PAYMENT\_TYPE.(either cash or card or half and half)
21. VENDOR will get 0 or multiple PAYMENT. But PAYMENT can not go to multiple VENDOR.
22. PAYMENT\_TYPE can be either CREDIT or DEBIT or CASH or can be both.
23. EMPLOYEE

* **PK(EMP\_ID)**
* **FK(DEP\_ID)**
* EMP\_FNAME
* EMP\_LNAME
* GENDER
* EMP\_ADDRESS
* EMP\_EMAIL
* EMP\_PH\_NUM
* EMP\_SALARY
* EMP\_HIRE\_DATE
* EMP\_TITLE
* EMP\_DOB
* EMP\_SSN

1. DEPARTMENT( violates 1NF)

* **PK(DEP\_ID)**
* MECHANIC
* HUMAN\_RESOURCES
* CUSTOMER\_SERVICE
* MANAGER

1. DEPARTMENT\_HEAD

* **PK,FK1(DEP\_ID)**
* **FK2(SHOP\_NUM)**
* DEPARTMENT\_HEAD\_FNAME
* DEPARTMENT\_HEAD\_LNAME
* DEPARTMENT\_HEAD\_SSN
* DEPARTMENT\_HEAD\_DOB

1. PERSONAL\_ASSISTANCE

* **PK(DEP\_ID)**
* EMP\_FNAME
* EMP\_LNAME
* EMP\_DOB
* EMP\_PH\_NUM
* EMP\_SSN

1. DEPENDENT

* **PK(DEPENDENT\_ID)**
* **FK(EMP\_ID)**
* DEPENDENT\_FNAME
* DEPENDENT\_LNAME
* DEPENDENT\_DOB
* RELATIONSHIP

1. GENDER

* **PK,FK(EMP\_ID)**
* MALE
* FEMALE
* OTHER

1. TIME\_CARD

* **PK,FK(EMP\_ID)**
* TIME\_IN
* TIME\_OUT
* DATE
* NO\_HOURS\_PER\_WEEK

1. TICKET

* **PK(TICKET\_NUM)**
* **FK1 (CUS\_ID)**
* **FK2(CAR\_ID)**
* TICKET\_DATE
* TICKET\_TIME

1. CUSTOMER

* **PK(CUS\_ID)**
* **FK1(EMP\_ID)**
* CUS\_FNAME
* CUS\_LNAME
* CUS\_EMAIL
* CUS\_PH\_NUM

1. CAR

* **PK(CAR\_ID)**
* **FK1(CUS\_ID)**
* **FK2(EMP\_ID)**
* TOTAL\_COST
* STATUS

1. INVOICE

* **PK(INV\_NUM)**
* **FK1(CUS\_ID)**
* **FK2(VENDOR\_ID)**
* INV\_DATE
* TOTAL\_AMT

1. VENDOR

* **PK(VENDOR\_ID)**
* VENDOR\_NAME
* RECEIVE\_DATE
* PAYMENT\_STATUS
* TYPE\_ OF\_PAYMENT

1. VENDOR\_PAYMENT

* **PK(VENDOR\_PAYMENT\_ID)**
* **FK(VENDOR\_ID)**
* TOTAL\_AMT
* PAYMENT\_DATE
* PAYMENT\_STATUS

1. PAYMENT\_TYPE

* **PK(PAYMENT\_ID)**
* **FK1(VENDOR\_PAYMENT\_ID)**
* **FK2(INV\_NUM)**
* PAYMENT\_IS\_DEBIT
* PAYMENT\_IS\_CREDIT
* PAYMENT\_IS\_CASH

1. PART

* **PK(PART\_NUM)**
* **FK1(CAR\_ID)**
* PART\_DESCRIPTION
* PURCHASE\_PRICE
* RETAIL\_PRICE
* RECEIVED\_DATE

1. PART\_TYPE

* **PK(PART\_ID)**
* **FK(PART\_NUM)**
* NAME
* USED
* NEW
* PRICE

1. COUPON

* **PK(COUPON\_ID)**
* **FK(CUS\_ID)**
* COUPON\_DESCRIPTION
* COUPON\_AMOUNT
* HOLIDAY\_10%OFF

1. SHOP

* **PK(SHOP\_\_NUM)**
* TAX\_NUMBER
* SHOP\_NAME
* SHOP\_ADDRESS
* SHOP\_PH\_NUM
* SHOP\_EMAIL

1. CREDIT

* **PK,FK(PAYMENT\_ID)**
* CARD\_NUM
* CARD\_TYPE
* CUS\_LNAME
* CUS\_FNAME

1. DEBIT

* **PK,FK(PAYMENT\_ID)**
* CARD\_NUM
* CARD\_TYPE
* CUS\_LNAME
* CUS\_FNAME

1. CASH

* **PK,FK(PAYMENT\_ID)**
* TOTAL\_AMT
* CHANGE

**Data Definition language (DDL)**

**CASH**

CREATE TABLE [dbo].[CASH](

[PAYMENT\_ID] [int] NOT NULL,

[TOTAL\_AMT] [nchar](10) NULL,

[CHANGE] [float] NULL,

CONSTRAINT [PK\_CASH] PRIMARY KEY CLUSTERED

(

[PAYMENT\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[CASH] WITH CHECK ADD CONSTRAINT [FK\_CASH\_PAYMENT\_TYPE] FOREIGN KEY([PAYMENT\_ID])

REFERENCES [dbo].[PAYMENT\_TYPE] ([PAYMENT\_ID])

GO

ALTER TABLE [dbo].[CASH] CHECK CONSTRAINT [FK\_CASH\_PAYMENT\_TYPE]

GO

**COUPON**

CREATE TABLE [dbo].[COUPON](

[COUPON\_ID] [varchar](50) NOT NULL,

[CUS\_ID] [int] NULL,

[COUPON\_DESCRIPTION] [nchar](10) NULL,

[COUPON\_AMOUNT] [float] NULL,

[HOLIDAY\_10%OFF] [varchar](50) NULL,

CONSTRAINT [PK\_COUPON] PRIMARY KEY CLUSTERED

(

[COUPON\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[COUPON] WITH CHECK ADD CONSTRAINT [FK\_COUPON\_CUSTOMER] FOREIGN KEY([CUS\_ID])

REFERENCES [dbo].[CUSTOMER] ([CUS\_ID])

GO

ALTER TABLE [dbo].[COUPON] CHECK CONSTRAINT [FK\_COUPON\_CUSTOMER]

GO

**CREDIT**

CREATE TABLE [dbo].[CREDIT](

[PAYMENT\_ID] [int] NOT NULL,

[INV\_NUM] [int] NULL,

[CARD\_NUM] [int] NULL,

[CARD\_TYPE] [char](10) NULL,

[CUS\_LNAME] [char](10) NULL,

[CUS\_FNAME] [char](10) NULL,

CONSTRAINT [PK\_CREDIT] PRIMARY KEY CLUSTERED

(

[PAYMENT\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[CREDIT] WITH CHECK ADD CONSTRAINT [FK\_CREDIT\_PAYMENT\_TYPE] FOREIGN KEY([PAYMENT\_ID])

REFERENCES [dbo].[PAYMENT\_TYPE] ([PAYMENT\_ID])

GO

ALTER TABLE [dbo].[CREDIT] CHECK CONSTRAINT [FK\_CREDIT\_PAYMENT\_TYPE]

GO

**CAR**

CREATE TABLE [dbo].[CAR](

[CAR\_ID] [int] NOT NULL,

[CUS\_ID] [int] NULL,

[EMP\_ID] [int] NULL,

[TOTAL\_COST] [float] NULL,

[STATUS] [char](10) NULL,

CONSTRAINT [PK\_CAR] PRIMARY KEY CLUSTERED

(

[CAR\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[CAR] WITH CHECK ADD CONSTRAINT [FK\_CAR\_EMPLOYEE] FOREIGN KEY([EMP\_ID])

REFERENCES [dbo].[EMPLOYEE] ([EMP\_ID])

GO

ALTER TABLE [dbo].[CAR] CHECK CONSTRAINT [FK\_CAR\_EMPLOYEE]

GO

**CUSTOMER**

CREATE TABLE [dbo].[CUSTOMER](

[CUS\_ID] [int] NOT NULL,

[CAR\_ID] [int] NULL,

[EMP\_ID] [int] NULL,

[CUS\_FNAME] [char](10) NULL,

[CUS\_LNAME] [char](10) NULL,

[CUS\_EMAIL] [varchar](50) NULL,

[CUS\_PH\_NUM] [int] NULL,

CONSTRAINT [PK\_CUSTOMER] PRIMARY KEY CLUSTERED

(

[CUS\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[CUSTOMER] WITH CHECK ADD CONSTRAINT [FK\_CUSTOMER\_CAR] FOREIGN KEY([CAR\_ID])

REFERENCES [dbo].[CAR] ([CAR\_ID])

GO

ALTER TABLE [dbo].[CUSTOMER] CHECK CONSTRAINT [FK\_CUSTOMER\_CAR]

GO

ALTER TABLE [dbo].[CUSTOMER] WITH CHECK ADD CONSTRAINT [FK\_CUSTOMER\_EMPLOYEE] FOREIGN KEY([EMP\_ID])

REFERENCES [dbo].[EMPLOYEE] ([EMP\_ID])

GO

ALTER TABLE [dbo].[CUSTOMER] CHECK CONSTRAINT [FK\_CUSTOMER\_EMPLOYEE]

GO

**DEBIT**

CREATE TABLE [dbo].[DEBIT](

[PAYMENT\_ID] [int] NOT NULL,

[INV\_NUM] [int] NULL,

[CARD\_NUM] [int] NULL,

[CARD\_TYPE] [char](10) NULL,

[CUS\_LNAME] [char](10) NULL,

[CUS\_FNAME] [char](10) NULL,

CONSTRAINT [PK\_DEBIT] PRIMARY KEY CLUSTERED

(

[PAYMENT\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[DEBIT] WITH CHECK ADD CONSTRAINT [FK\_DEBIT\_PAYMENT\_TYPE] FOREIGN KEY([PAYMENT\_ID])

REFERENCES [dbo].[PAYMENT\_TYPE] ([PAYMENT\_ID])

GO

ALTER TABLE [dbo].[DEBIT] CHECK CONSTRAINT [FK\_DEBIT\_PAYMENT\_TYPE]

GO

**DEPARTMENT**

CREATE TABLE [dbo].[DEPARTMENT](

[DEP\_ID] [int] NOT NULL,

[MECHANIC] [nchar](10) NULL,

[HUMAN\_RESOURCES] [nchar](10) NULL,

[CUSTOMER\_SERVICES] [nchar](10) NULL,

[MANAGER] [nchar](10) NULL,

CONSTRAINT [PK\_DEPARTMENT] PRIMARY KEY CLUSTERED

(

[DEP\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

**DEPARTMENT\_HEAD**

CREATE TABLE [dbo].[DEPARTMENT\_HEAD](

[EMP\_ID] [int] NOT NULL,

[SHOP\_NUM] [int] NULL,

[DEPARTMENT\_HEAD\_FNAME] [nchar](10) NULL,

[DEPARTMENT\_HEAD\_LNAME] [nchar](10) NULL,

[DEPARTMENT\_HEAD\_SSN] [int] NULL,

[DEPARTMENT\_HEAD\_DOB] [date] NULL,

CONSTRAINT [PK\_DEPARTMENT\_HEAD] PRIMARY KEY CLUSTERED

(

[EMP\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[DEPARTMENT\_HEAD] WITH CHECK ADD CONSTRAINT [FK\_DEPARTMENT\_HEAD\_EMPLOYEE] FOREIGN KEY([EMP\_ID])

REFERENCES [dbo].[EMPLOYEE] ([EMP\_ID])

GO

ALTER TABLE [dbo].[DEPARTMENT\_HEAD] CHECK CONSTRAINT [FK\_DEPARTMENT\_HEAD\_EMPLOYEE]

GO

ALTER TABLE [dbo].[DEPARTMENT\_HEAD] WITH CHECK ADD CONSTRAINT [FK\_DEPARTMENT\_HEAD\_SHOP] FOREIGN KEY([SHOP\_NUM])

REFERENCES [dbo].[SHOP] ([SHOP\_NUM])

GO

ALTER TABLE [dbo].[DEPARTMENT\_HEAD] CHECK CONSTRAINT [FK\_DEPARTMENT\_HEAD\_SHOP]

GO

**DEPENDENT**

CREATE TABLE [dbo].[DEPENDENT](

[DEPENDENT\_ID] [int] NOT NULL,

[EMP\_ID] [int] NULL,

[DEPENDENT\_FNAME] [nchar](10) NOT NULL,

[DEPENDENT\_LNAME] [nchar](10) NULL,

[DEPENDENT\_DOB] [date] NULL,

[RELATIONSHIP] [nchar](10) NULL,

CONSTRAINT [PK\_DEPENDENT] PRIMARY KEY CLUSTERED

(

[DEPENDENT\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[DEPENDENT] WITH CHECK ADD CONSTRAINT [FK\_DEPENDENT\_EMPLOYEE] FOREIGN KEY([EMP\_ID])

REFERENCES [dbo].[EMPLOYEE] ([EMP\_ID])

GO

ALTER TABLE [dbo].[DEPENDENT] CHECK CONSTRAINT [FK\_DEPENDENT\_EMPLOYEE]

GO

**EMPLOYEE**

CREATE TABLE [dbo].[EMPLOYEE](

[EMP\_ID] [int] NOT NULL,

[DEP\_ID] [int] NULL,

[EMP\_FNAME] [nchar](10) NULL,

[EMP\_LNAME] [nchar](10) NULL,

[GENDER] [nchar](10) NULL,

[EMP\_ADDRESS] [varchar](50) NULL,

[EMP\_EMAIL] [varchar](50) NULL,

[EMP\_PH\_NUM] [int] NULL,

[EMP\_SALARY] [float] NULL,

[EMP\_HIRE\_DATE] [date] NULL,

[EMP\_TITLE] [nchar](10) NULL,

[EMP\_DOB] [date] NULL,

CONSTRAINT [PK\_EMPLOYEE] PRIMARY KEY CLUSTERED

(

[EMP\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[EMPLOYEE] WITH CHECK ADD CONSTRAINT [FK\_EMPLOYEE\_DEPARTMENT] FOREIGN KEY([DEP\_ID])

REFERENCES [dbo].[DEPARTMENT] ([DEP\_ID])

GO

ALTER TABLE [dbo].[EMPLOYEE] CHECK CONSTRAINT [FK\_EMPLOYEE\_DEPARTMENT]

GO

**GENDER**

CREATE TABLE [dbo].[GENDER](

[EMP\_ID] [int] NOT NULL,

[MALE] [nchar](10) NULL,

[FEMALE] [nchar](10) NULL,

[OTHERS] [nchar](10) NULL,

CONSTRAINT [PK\_GENDER] PRIMARY KEY CLUSTERED

(

[EMP\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[GENDER] WITH CHECK ADD CONSTRAINT [FK\_GENDER\_EMPLOYEE] FOREIGN KEY([EMP\_ID])

REFERENCES [dbo].[EMPLOYEE] ([EMP\_ID])

GO

ALTER TABLE [dbo].[GENDER] CHECK CONSTRAINT [FK\_GENDER\_EMPLOYEE]

GO

**INVOICE**

CREATE TABLE [dbo].[INVOICE](

[INV\_NUM] [int] NOT NULL,

[CUS\_ID] [int] NULL,

[VENDOR\_ID] [int] NOT NULL,

[INV\_DATE] [date] NULL,

[TOTAL\_AMT] [float] NULL,

CONSTRAINT [PK\_INVOICE] PRIMARY KEY CLUSTERED

(

[INV\_NUM] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[INVOICE] WITH CHECK ADD CONSTRAINT [FK\_INVOICE\_CUSTOMER] FOREIGN KEY([CUS\_ID])

REFERENCES [dbo].[CUSTOMER] ([CUS\_ID])

GO

ALTER TABLE [dbo].[INVOICE] CHECK CONSTRAINT [FK\_INVOICE\_CUSTOMER]

GO

ALTER TABLE [dbo].[INVOICE] WITH CHECK ADD CONSTRAINT [FK\_INVOICE\_VENDOR] FOREIGN KEY([VENDOR\_ID])

REFERENCES [dbo].[VENDOR] ([VENDOR\_ID])

GO

ALTER TABLE [dbo].[INVOICE] CHECK CONSTRAINT [FK\_INVOICE\_VENDOR]

GO

**PART**

CREATE TABLE [dbo].[PART](

[PART\_NUM] [int] NOT NULL,

[CAR\_ID] [int] NULL,

[PART\_DESCRIPTION] [char](10) NULL,

[PURCHASE\_PRICE] [float] NULL,

[RETAIL\_PRICE] [float] NULL,

[RECEIVED\_DATE] [date] NULL,

CONSTRAINT [PK\_PART] PRIMARY KEY CLUSTERED

(

[PART\_NUM] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[PART] WITH CHECK ADD CONSTRAINT [FK\_PART\_CAR] FOREIGN KEY([CAR\_ID])

REFERENCES [dbo].[CAR] ([CAR\_ID])

GO

ALTER TABLE [dbo].[PART] CHECK CONSTRAINT [FK\_PART\_CAR]

GO

**PART\_TYPE**

CREATE TABLE [dbo].[PART\_TYPE](

[PART\_ID] [int] NOT NULL,

[PART\_NUM] [int] NULL,

[NAME] [char](10) NULL,

[USED] [char](10) NULL,

[NEW] [char](10) NULL,

[PRICE] [float] NULL,

CONSTRAINT [PK\_PART\_TYPE] PRIMARY KEY CLUSTERED

(

[PART\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[PART\_TYPE] WITH CHECK ADD CONSTRAINT [FK\_PART\_TYPE\_PART] FOREIGN KEY([PART\_NUM])

REFERENCES [dbo].[PART] ([PART\_NUM])

GO

ALTER TABLE [dbo].[PART\_TYPE] CHECK CONSTRAINT [FK\_PART\_TYPE\_PART]

GO

**PAYMENT\_TYPE**

CREATE TABLE [dbo].[PAYMENT\_TYPE](

[PAYMENT\_ID] [int] NOT NULL,

[VENDOR\_PAYMENT\_ID] [int] NULL,

[INV\_NUM] [int] NULL,

[PAYMENT\_IS\_DEBIT] [char](10) NULL,

[PAYMENT\_IS\_CREDIT] [char](10) NULL,

[PAYMENT\_IS\_CASH] [char](10) NULL,

CONSTRAINT [PK\_PAYMENT\_TYPE] PRIMARY KEY CLUSTERED

(

[PAYMENT\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[PAYMENT\_TYPE] WITH CHECK ADD CONSTRAINT [FK\_PAYMENT\_TYPE\_INVOICE] FOREIGN KEY([INV\_NUM])

REFERENCES [dbo].[INVOICE] ([INV\_NUM])

GO

ALTER TABLE [dbo].[PAYMENT\_TYPE] CHECK CONSTRAINT [FK\_PAYMENT\_TYPE\_INVOICE]

GO

ALTER TABLE [dbo].[PAYMENT\_TYPE] WITH CHECK ADD CONSTRAINT [FK\_PAYMENT\_TYPE\_VENDOR\_PAYMENT] FOREIGN KEY([VENDOR\_PAYMENT\_ID])

REFERENCES [dbo].[VENDOR\_PAYMENT] ([VENDOR\_PAYMENT\_ID])

GO

ALTER TABLE [dbo].[PAYMENT\_TYPE] CHECK CONSTRAINT [FK\_PAYMENT\_TYPE\_VENDOR\_PAYMENT]

GO

**PERSONAL\_ASSISTANCE**

CREATE TABLE [dbo].[PERSONAL\_ASSISTANCE](

[DEP\_ID] [int] NOT NULL,

[EMP\_FNAME] [nchar](10) NULL,

[EMP\_LNAME] [nchar](10) NULL,

[EMP\_DOB] [date] NULL,

[EMP\_PH\_NUM] [int] NULL,

[EMP\_SSN] [int] NULL,

CONSTRAINT [PK\_PERSONAL\_ASSISTANCE] PRIMARY KEY CLUSTERED

(

[DEP\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[PERSONAL\_ASSISTANCE] WITH CHECK ADD CONSTRAINT [FK\_PERSONAL\_ASSISTANCE\_DEPARTMENT] FOREIGN KEY([DEP\_ID])

REFERENCES [dbo].[DEPARTMENT] ([DEP\_ID])

GO

ALTER TABLE [dbo].[PERSONAL\_ASSISTANCE] CHECK CONSTRAINT [FK\_PERSONAL\_ASSISTANCE\_DEPARTMENT]

GO

**SHOP**

CREATE TABLE [dbo].[SHOP](

[SHOP\_NUM] [int] NOT NULL,

[TAX\_NUMBER] [int] NULL,

[SHOP\_NAME] [char](10) NULL,

[SHOP\_ADDRESS] [varchar](50) NULL,

[SHOP\_PH\_NUM] [int] NULL,

[SHOP\_EMAIL] [varchar](50) NULL,

CONSTRAINT [PK\_SHOP] PRIMARY KEY CLUSTERED

(

[SHOP\_NUM] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

**TICKET**

CREATE TABLE [dbo].[TICKET](

[TICKET\_NUM] [int] NOT NULL,

[CUS\_ID] [int] NULL,

[CAR\_ID] [int] NULL,

[TICKET\_DATE] [date] NULL,

[TICKET\_TIME] [time](7) NULL,

CONSTRAINT [PK\_TICKET] PRIMARY KEY CLUSTERED

(

[TICKET\_NUM] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[TICKET] WITH CHECK ADD CONSTRAINT [FK\_TICKET\_CAR] FOREIGN KEY([CAR\_ID])

REFERENCES [dbo].[CAR] ([CAR\_ID])

GO

ALTER TABLE [dbo].[TICKET] CHECK CONSTRAINT [FK\_TICKET\_CAR]

GO

ALTER TABLE [dbo].[TICKET] WITH CHECK ADD CONSTRAINT [FK\_TICKET\_CUSTOMER] FOREIGN KEY([CUS\_ID])

REFERENCES [dbo].[CUSTOMER] ([CUS\_ID])

GO

ALTER TABLE [dbo].[TICKET] CHECK CONSTRAINT [FK\_TICKET\_CUSTOMER]

GO

**TIME\_CARD**

CREATE TABLE [dbo].[TIME\_CARD](

[EMP\_ID] [int] NOT NULL,

[TIME\_IN] [time](7) NULL,

[TIME\_OUT] [time](7) NULL,

[DATE] [date] NULL,

[N0\_HOURS\_PER\_WEEK] [float] NULL,

CONSTRAINT [PK\_TIME\_CARD] PRIMARY KEY CLUSTERED

(

[EMP\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[TIME\_CARD] WITH CHECK ADD CONSTRAINT [FK\_TIME\_CARD\_EMPLOYEE] FOREIGN KEY([EMP\_ID])

REFERENCES [dbo].[EMPLOYEE] ([EMP\_ID])

GO

ALTER TABLE [dbo].[TIME\_CARD] CHECK CONSTRAINT [FK\_TIME\_CARD\_EMPLOYEE]

GO

**VENDOR**

CREATE TABLE [dbo].[VENDOR](

[VENDOR\_ID] [int] NOT NULL,

[VENDOR\_NAME] [nchar](10) NULL,

[RECEIVE\_DATE] [date] NULL,

[PAYMENT\_STATUS] [nchar](10) NULL,

[TYPE\_OF\_PAYMENT] [nchar](10) NULL,

CONSTRAINT [PK\_VENDOR] PRIMARY KEY CLUSTERED

(

[VENDOR\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

**VENDOR\_PAYMENT**

CREATE TABLE [dbo].[VENDOR\_PAYMENT](

[VENDOR\_PAYMENT\_ID] [int] NOT NULL,

[VENDOR\_ID] [int] NULL,

[TOTAL\_AMT] [float] NULL,

[PAYMENT\_DATE] [date] NULL,

[PAYMENT\_STATUS] [char](10) NULL,

CONSTRAINT [PK\_VENDOR\_PAYMENT] PRIMARY KEY CLUSTERED

(

[VENDOR\_PAYMENT\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[VENDOR\_PAYMENT] WITH CHECK ADD CONSTRAINT [FK\_VENDOR\_PAYMENT\_VENDOR] FOREIGN KEY([VENDOR\_ID])

REFERENCES [dbo].[VENDOR] ([VENDOR\_ID])

GO

ALTER TABLE [dbo].[VENDOR\_PAYMENT] CHECK CONSTRAINT [FK\_VENDOR\_PAYMENT\_VENDOR]

GO

**Data Manipulation Language (DML) SCRIPT**

**CAR**

SELECT [CAR\_ID]

,[CUS\_ID]

,[EMP\_ID]

,[TOTAL\_COST]

,[STATUS]

FROM [dbo].[CAR]

GO

INSERT INTO [dbo].[CAR]

([CAR\_ID]

,[CUS\_ID]

,[EMP\_ID]

,[TOTAL\_COST]

,[STATUS])

VALUES

(<CAR\_ID, int,>

,<CUS\_ID, int,>

,<EMP\_ID, int,>

,<TOTAL\_COST, float,>

,<STATUS, char(10),>)

GO

UPDATE [dbo].[CAR]

SET [CAR\_ID] = <CAR\_ID, int,>

,[CUS\_ID] = <CUS\_ID, int,>

,[EMP\_ID] = <EMP\_ID, int,>

,[TOTAL\_COST] = <TOTAL\_COST, float,>

,[STATUS] = <STATUS, char(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[CAR]

WHERE <Search Conditions,,>

GO

**CASH**

SELECT [PAYMENT\_ID]

,[TOTAL\_AMT]

,[CHANGE]

FROM [dbo].[CASH]

GO

INSERT INTO [dbo].[CASH]

([PAYMENT\_ID]

,[TOTAL\_AMT]

,[CHANGE])

VALUES

(<PAYMENT\_ID, int,>

,<TOTAL\_AMT, nchar(10),>

,<CHANGE, float,>)

GO

UPDATE [dbo].[CASH]

SET [PAYMENT\_ID] = <PAYMENT\_ID, int,>

,[TOTAL\_AMT] = <TOTAL\_AMT, nchar(10),>

,[CHANGE] = <CHANGE, float,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[CASH]

WHERE <Search Conditions,,>

GO

**COUPON**

SELECT [COUPON\_ID]

,[CUS\_ID]

,[COUPON\_DESCRIPTION]

,[COUPON\_AMOUNT]

,[HOLIDAY\_10%OFF]

FROM [dbo].[COUPON]

GO

INSERT INTO [dbo].[COUPON]

([COUPON\_ID]

,[CUS\_ID]

,[COUPON\_DESCRIPTION]

,[COUPON\_AMOUNT]

,[HOLIDAY\_10%OFF])

VALUES

(<COUPON\_ID, varchar(50),>

,<CUS\_ID, int,>

,<COUPON\_DESCRIPTION, nchar(10),>

,<COUPON\_AMOUNT, float,>

,<HOLIDAY\_10%OFF, varchar(50),>)

GO

UPDATE [dbo].[COUPON]

SET [COUPON\_ID] = <COUPON\_ID, varchar(50),>

,[CUS\_ID] = <CUS\_ID, int,>

,[COUPON\_DESCRIPTION] = <COUPON\_DESCRIPTION, nchar(10),>

,[COUPON\_AMOUNT] = <COUPON\_AMOUNT, float,>

,[HOLIDAY\_10%OFF] = <HOLIDAY\_10%OFF, varchar(50),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[COUPON]

WHERE <Search Conditions,,>

GO

**CREDIT**

SELECT [PAYMENT\_ID]

,[INV\_NUM]

,[CARD\_NUM]

,[CARD\_TYPE]

,[CUS\_LNAME]

,[CUS\_FNAME]

FROM [dbo].[CREDIT]

GO

INSERT INTO [dbo].[CREDIT]

([PAYMENT\_ID]

,[INV\_NUM]

,[CARD\_NUM]

,[CARD\_TYPE]

,[CUS\_LNAME]

,[CUS\_FNAME])

VALUES

(<PAYMENT\_ID, int,>

,<INV\_NUM, int,>

,<CARD\_NUM, int,>

,<CARD\_TYPE, char(10),>

,<CUS\_LNAME, char(10),>

,<CUS\_FNAME, char(10),>)

GO

UPDATE [dbo].[CREDIT]

SET [PAYMENT\_ID] = <PAYMENT\_ID, int,>

,[INV\_NUM] = <INV\_NUM, int,>

,[CARD\_NUM] = <CARD\_NUM, int,>

,[CARD\_TYPE] = <CARD\_TYPE, char(10),>

,[CUS\_LNAME] = <CUS\_LNAME, char(10),>

,[CUS\_FNAME] = <CUS\_FNAME, char(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[CREDIT]

WHERE <Search Conditions,,>

GO

**CUSTOMER**

SELECT [CUS\_ID]

,[CAR\_ID]

,[EMP\_ID]

,[CUS\_FNAME]

,[CUS\_LNAME]

,[CUS\_EMAIL]

,[CUS\_PH\_NUM]

FROM [dbo].[CUSTOMER]

GO

INSERT INTO [dbo].[CUSTOMER]

([CUS\_ID]

,[CAR\_ID]

,[EMP\_ID]

,[CUS\_FNAME]

,[CUS\_LNAME]

,[CUS\_EMAIL]

,[CUS\_PH\_NUM])

VALUES

(<CUS\_ID, int,>

,<CAR\_ID, int,>

,<EMP\_ID, int,>

,<CUS\_FNAME, char(10),>

,<CUS\_LNAME, char(10),>

,<CUS\_EMAIL, varchar(50),>

,<CUS\_PH\_NUM, int,>)

GO

UPDATE [dbo].[CUSTOMER]

SET [CUS\_ID] = <CUS\_ID, int,>

,[CAR\_ID] = <CAR\_ID, int,>

,[EMP\_ID] = <EMP\_ID, int,>

,[CUS\_FNAME] = <CUS\_FNAME, char(10),>

,[CUS\_LNAME] = <CUS\_LNAME, char(10),>

,[CUS\_EMAIL] = <CUS\_EMAIL, varchar(50),>

,[CUS\_PH\_NUM] = <CUS\_PH\_NUM, int,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[CUSTOMER]

WHERE <Search Conditions,,>

GO

**DEBIT**

SELECT [PAYMENT\_ID]

,[INV\_NUM]

,[CARD\_NUM]

,[CARD\_TYPE]

,[CUS\_LNAME]

,[CUS\_FNAME]

FROM [dbo].[DEBIT]

GO

INSERT INTO [dbo].[DEBIT]

([PAYMENT\_ID]

,[INV\_NUM]

,[CARD\_NUM]

,[CARD\_TYPE]

,[CUS\_LNAME]

,[CUS\_FNAME])

VALUES

(<PAYMENT\_ID, int,>

,<INV\_NUM, int,>

,<CARD\_NUM, int,>

,<CARD\_TYPE, char(10),>

,<CUS\_LNAME, char(10),>

,<CUS\_FNAME, char(10),>)

GO

UPDATE [dbo].[DEBIT]

SET [PAYMENT\_ID] = <PAYMENT\_ID, int,>

,[INV\_NUM] = <INV\_NUM, int,>

,[CARD\_NUM] = <CARD\_NUM, int,>

,[CARD\_TYPE] = <CARD\_TYPE, char(10),>

,[CUS\_LNAME] = <CUS\_LNAME, char(10),>

,[CUS\_FNAME] = <CUS\_FNAME, char(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[DEBIT]

WHERE <Search Conditions,,>

GO

**DEPARTMENT**

SELECT [DEP\_ID]

,[MECHANIC]

,[HUMAN\_RESOURCES]

,[CUSTOMER\_SERVICES]

,[MANAGER]

FROM [dbo].[DEPARTMENT]

GO

INSERT INTO [dbo].[DEPARTMENT]

([DEP\_ID]

,[MECHANIC]

,[HUMAN\_RESOURCES]

,[CUSTOMER\_SERVICES]

,[MANAGER])

VALUES

(<DEP\_ID, int,>

,<MECHANIC, nchar(10),>

,<HUMAN\_RESOURCES, nchar(10),>

,<CUSTOMER\_SERVICES, nchar(10),>

,<MANAGER, nchar(10),>)

GO

UPDATE [dbo].[DEPARTMENT]

SET [DEP\_ID] = <DEP\_ID, int,>

,[MECHANIC] = <MECHANIC, nchar(10),>

,[HUMAN\_RESOURCES] = <HUMAN\_RESOURCES, nchar(10),>

,[CUSTOMER\_SERVICES] = <CUSTOMER\_SERVICES, nchar(10),>

,[MANAGER] = <MANAGER, nchar(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[DEPARTMENT]

WHERE <Search Conditions,,>

GO

**DEPARTMENT\_HEAD**

SELECT [EMP\_ID]

,[SHOP\_NUM]

,[DEPARTMENT\_HEAD\_FNAME]

,[DEPARTMENT\_HEAD\_LNAME]

,[DEPARTMENT\_HEAD\_SSN]

,[DEPARTMENT\_HEAD\_DOB]

FROM [dbo].[DEPARTMENT\_HEAD]

GO

INSERT INTO [dbo].[DEPARTMENT\_HEAD]

([EMP\_ID]

,[SHOP\_NUM]

,[DEPARTMENT\_HEAD\_FNAME]

,[DEPARTMENT\_HEAD\_LNAME]

,[DEPARTMENT\_HEAD\_SSN]

,[DEPARTMENT\_HEAD\_DOB])

VALUES

(<EMP\_ID, int,>

,<SHOP\_NUM, int,>

,<DEPARTMENT\_HEAD\_FNAME, nchar(10),>

,<DEPARTMENT\_HEAD\_LNAME, nchar(10),>

,<DEPARTMENT\_HEAD\_SSN, int,>

,<DEPARTMENT\_HEAD\_DOB, date,>)

GO

UPDATE [dbo].[DEPARTMENT\_HEAD]

SET [EMP\_ID] = <EMP\_ID, int,>

,[SHOP\_NUM] = <SHOP\_NUM, int,>

,[DEPARTMENT\_HEAD\_FNAME] = <DEPARTMENT\_HEAD\_FNAME, nchar(10),>

,[DEPARTMENT\_HEAD\_LNAME] = <DEPARTMENT\_HEAD\_LNAME, nchar(10),>

,[DEPARTMENT\_HEAD\_SSN] = <DEPARTMENT\_HEAD\_SSN, int,>

,[DEPARTMENT\_HEAD\_DOB] = <DEPARTMENT\_HEAD\_DOB, date,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[DEPARTMENT\_HEAD]

WHERE <Search Conditions,,>

GO

**DEPENDENT**

SELECT [DEPENDENT\_ID]

,[EMP\_ID]

,[DEPENDENT\_FNAME]

,[DEPENDENT\_LNAME]

,[DEPENDENT\_DOB]

,[RELATIONSHIP]

FROM [dbo].[DEPENDENT]

GO

INSERT INTO [dbo].[DEPENDENT]

([DEPENDENT\_ID]

,[EMP\_ID]

,[DEPENDENT\_FNAME]

,[DEPENDENT\_LNAME]

,[DEPENDENT\_DOB]

,[RELATIONSHIP])

VALUES

(<DEPENDENT\_ID, int,>

,<EMP\_ID, int,>

,<DEPENDENT\_FNAME, nchar(10),>

,<DEPENDENT\_LNAME, nchar(10),>

,<DEPENDENT\_DOB, date,>

,<RELATIONSHIP, nchar(10),>)

GO

UPDATE [dbo].[DEPENDENT]

SET [DEPENDENT\_ID] = <DEPENDENT\_ID, int,>

,[EMP\_ID] = <EMP\_ID, int,>

,[DEPENDENT\_FNAME] = <DEPENDENT\_FNAME, nchar(10),>

,[DEPENDENT\_LNAME] = <DEPENDENT\_LNAME, nchar(10),>

,[DEPENDENT\_DOB] = <DEPENDENT\_DOB, date,>

,[RELATIONSHIP] = <RELATIONSHIP, nchar(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[DEPENDENT]

WHERE <Search Conditions,,>

GO

**EMPLOYEE**

SELECT [EMP\_ID]

,[DEP\_ID]

,[EMP\_FNAME]

,[EMP\_LNAME]

,[GENDER]

,[EMP\_ADDRESS]

,[EMP\_EMAIL]

,[EMP\_PH\_NUM]

,[EMP\_SALARY]

,[EMP\_HIRE\_DATE]

,[EMP\_TITLE]

,[EMP\_DOB]

FROM [dbo].[EMPLOYEE]

GO

INSERT INTO [dbo].[EMPLOYEE]

([EMP\_ID]

,[DEP\_ID]

,[EMP\_FNAME]

,[EMP\_LNAME]

,[GENDER]

,[EMP\_ADDRESS]

,[EMP\_EMAIL]

,[EMP\_PH\_NUM]

,[EMP\_SALARY]

,[EMP\_HIRE\_DATE]

,[EMP\_TITLE]

,[EMP\_DOB])

VALUES

(<EMP\_ID, int,>

,<DEP\_ID, int,>

,<EMP\_FNAME, nchar(10),>

,<EMP\_LNAME, nchar(10),>

,<GENDER, nchar(10),>

,<EMP\_ADDRESS, varchar(50),>

,<EMP\_EMAIL, varchar(50),>

,<EMP\_PH\_NUM, int,>

,<EMP\_SALARY, float,>

,<EMP\_HIRE\_DATE, date,>

,<EMP\_TITLE, nchar(10),>

,<EMP\_DOB, date,>)

GO

UPDATE [dbo].[EMPLOYEE]

SET [EMP\_ID] = <EMP\_ID, int,>

,[DEP\_ID] = <DEP\_ID, int,>

,[EMP\_FNAME] = <EMP\_FNAME, nchar(10),>

,[EMP\_LNAME] = <EMP\_LNAME, nchar(10),>

,[GENDER] = <GENDER, nchar(10),>

,[EMP\_ADDRESS] = <EMP\_ADDRESS, varchar(50),>

,[EMP\_EMAIL] = <EMP\_EMAIL, varchar(50),>

,[EMP\_PH\_NUM] = <EMP\_PH\_NUM, int,>

,[EMP\_SALARY] = <EMP\_SALARY, float,>

,[EMP\_HIRE\_DATE] = <EMP\_HIRE\_DATE, date,>

,[EMP\_TITLE] = <EMP\_TITLE, nchar(10),>

,[EMP\_DOB] = <EMP\_DOB, date,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[EMPLOYEE]

WHERE <Search Conditions,,>

GO

**GENDER**

SELECT [EMP\_ID]

,[MALE]

,[FEMALE]

,[OTHERS]

FROM [dbo].[GENDER]

GO

INSERT INTO [dbo].[GENDER]

([EMP\_ID]

,[MALE]

,[FEMALE]

,[OTHERS])

VALUES

(<EMP\_ID, int,>

,<MALE, nchar(10),>

,<FEMALE, nchar(10),>

,<OTHERS, nchar(10),>)

GO

UPDATE [dbo].[GENDER]

SET [EMP\_ID] = <EMP\_ID, int,>

,[MALE] = <MALE, nchar(10),>

,[FEMALE] = <FEMALE, nchar(10),>

,[OTHERS] = <OTHERS, nchar(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[GENDER]

WHERE <Search Conditions,,>

GO

**INVOICE**

SELECT [INV\_NUM]

,[CUS\_ID]

,[VENDOR\_ID]

,[INV\_DATE]

,[TOTAL\_AMT]

FROM [dbo].[INVOICE]

GO

INSERT INTO [dbo].[INVOICE]

([INV\_NUM]

,[CUS\_ID]

,[VENDOR\_ID]

,[INV\_DATE]

,[TOTAL\_AMT])

VALUES

(<INV\_NUM, int,>

,<CUS\_ID, int,>

,<VENDOR\_ID, int,>

,<INV\_DATE, date,>

,<TOTAL\_AMT, float,>)

GO

UPDATE [dbo].[INVOICE]

SET [INV\_NUM] = <INV\_NUM, int,>

,[CUS\_ID] = <CUS\_ID, int,>

,[VENDOR\_ID] = <VENDOR\_ID, int,>

,[INV\_DATE] = <INV\_DATE, date,>

,[TOTAL\_AMT] = <TOTAL\_AMT, float,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[INVOICE]

WHERE <Search Conditions,,>

GO

**PART**

SELECT [PART\_NUM]

,[CAR\_ID]

,[PART\_DESCRIPTION]

,[PURCHASE\_PRICE]

,[RETAIL\_PRICE]

,[RECEIVED\_DATE]

FROM [dbo].[PART]

GO

INSERT INTO [dbo].[PART]

([PART\_NUM]

,[CAR\_ID]

,[PART\_DESCRIPTION]

,[PURCHASE\_PRICE]

,[RETAIL\_PRICE]

,[RECEIVED\_DATE])

VALUES

(<PART\_NUM, int,>

,<CAR\_ID, int,>

,<PART\_DESCRIPTION, char(10),>

,<PURCHASE\_PRICE, float,>

,<RETAIL\_PRICE, float,>

,<RECEIVED\_DATE, date,>)

GO

UPDATE [dbo].[PART]

SET [PART\_NUM] = <PART\_NUM, int,>

,[CAR\_ID] = <CAR\_ID, int,>

,[PART\_DESCRIPTION] = <PART\_DESCRIPTION, char(10),>

,[PURCHASE\_PRICE] = <PURCHASE\_PRICE, float,>

,[RETAIL\_PRICE] = <RETAIL\_PRICE, float,>

,[RECEIVED\_DATE] = <RECEIVED\_DATE, date,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[PART]

WHERE <Search Conditions,,>

GO

**PART\_TYPE**

SELECT [PART\_ID]

,[PART\_NUM]

,[NAME]

,[USED]

,[NEW]

,[PRICE]

FROM [dbo].[PART\_TYPE]

GO

INSERT INTO [dbo].[PART\_TYPE]

([PART\_ID]

,[PART\_NUM]

,[NAME]

,[USED]

,[NEW]

,[PRICE])

VALUES

(<PART\_ID, int,>

,<PART\_NUM, int,>

,<NAME, char(10),>

,<USED, char(10),>

,<NEW, char(10),>

,<PRICE, float,>)

GO

UPDATE [dbo].[PART\_TYPE]

SET [PART\_ID] = <PART\_ID, int,>

,[PART\_NUM] = <PART\_NUM, int,>

,[NAME] = <NAME, char(10),>

,[USED] = <USED, char(10),>

,[NEW] = <NEW, char(10),>

,[PRICE] = <PRICE, float,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[PART\_TYPE]

WHERE <Search Conditions,,>

GO

**PAYMENT\_TYPE**

SELECT [PAYMENT\_ID]

,[VENDOR\_PAYMENT\_ID]

,[INV\_NUM]

,[PAYMENT\_IS\_DEBIT]

,[PAYMENT\_IS\_CREDIT]

,[PAYMENT\_IS\_CASH]

FROM [dbo].[PAYMENT\_TYPE]

GO

INSERT INTO [dbo].[PAYMENT\_TYPE]

([PAYMENT\_ID]

,[VENDOR\_PAYMENT\_ID]

,[INV\_NUM]

,[PAYMENT\_IS\_DEBIT]

,[PAYMENT\_IS\_CREDIT]

,[PAYMENT\_IS\_CASH])

VALUES

(<PAYMENT\_ID, int,>

,<VENDOR\_PAYMENT\_ID, int,>

,<INV\_NUM, int,>

,<PAYMENT\_IS\_DEBIT, char(10),>

,<PAYMENT\_IS\_CREDIT, char(10),>

,<PAYMENT\_IS\_CASH, char(10),>)

GO

UPDATE [dbo].[PAYMENT\_TYPE]

SET [PAYMENT\_ID] = <PAYMENT\_ID, int,>

,[VENDOR\_PAYMENT\_ID] = <VENDOR\_PAYMENT\_ID, int,>

,[INV\_NUM] = <INV\_NUM, int,>

,[PAYMENT\_IS\_DEBIT] = <PAYMENT\_IS\_DEBIT, char(10),>

,[PAYMENT\_IS\_CREDIT] = <PAYMENT\_IS\_CREDIT, char(10),>

,[PAYMENT\_IS\_CASH] = <PAYMENT\_IS\_CASH, char(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[PAYMENT\_TYPE]

WHERE <Search Conditions,,>

GO

**PERSONAL\_ASSISTANCE**

SELECT [DEP\_ID]

,[EMP\_FNAME]

,[EMP\_LNAME]

,[EMP\_DOB]

,[EMP\_PH\_NUM]

,[EMP\_SSN]

FROM [dbo].[PERSONAL\_ASSISTANCE]

GO

INSERT INTO [dbo].[PERSONAL\_ASSISTANCE]

([DEP\_ID]

,[EMP\_FNAME]

,[EMP\_LNAME]

,[EMP\_DOB]

,[EMP\_PH\_NUM]

,[EMP\_SSN])

VALUES

(<DEP\_ID, int,>

,<EMP\_FNAME, nchar(10),>

,<EMP\_LNAME, nchar(10),>

,<EMP\_DOB, date,>

,<EMP\_PH\_NUM, int,>

,<EMP\_SSN, int,>)

GO

UPDATE [dbo].[PERSONAL\_ASSISTANCE]

SET [DEP\_ID] = <DEP\_ID, int,>

,[EMP\_FNAME] = <EMP\_FNAME, nchar(10),>

,[EMP\_LNAME] = <EMP\_LNAME, nchar(10),>

,[EMP\_DOB] = <EMP\_DOB, date,>

,[EMP\_PH\_NUM] = <EMP\_PH\_NUM, int,>

,[EMP\_SSN] = <EMP\_SSN, int,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[PERSONAL\_ASSISTANCE]

WHERE <Search Conditions,,>

GO

**SHOP**

SELECT [SHOP\_NUM]

,[TAX\_NUMBER]

,[SHOP\_NAME]

,[SHOP\_ADDRESS]

,[SHOP\_PH\_NUM]

,[SHOP\_EMAIL]

FROM [dbo].[SHOP]

GO

INSERT INTO [dbo].[SHOP]

([SHOP\_NUM]

,[TAX\_NUMBER]

,[SHOP\_NAME]

,[SHOP\_ADDRESS]

,[SHOP\_PH\_NUM]

,[SHOP\_EMAIL])

VALUES

(<SHOP\_NUM, int,>

,<TAX\_NUMBER, int,>

,<SHOP\_NAME, char(10),>

,<SHOP\_ADDRESS, varchar(50),>

,<SHOP\_PH\_NUM, int,>

,<SHOP\_EMAIL, varchar(50),>)

GO

UPDATE [dbo].[SHOP]

SET [SHOP\_NUM] = <SHOP\_NUM, int,>

,[TAX\_NUMBER] = <TAX\_NUMBER, int,>

,[SHOP\_NAME] = <SHOP\_NAME, char(10),>

,[SHOP\_ADDRESS] = <SHOP\_ADDRESS, varchar(50),>

,[SHOP\_PH\_NUM] = <SHOP\_PH\_NUM, int,>

,[SHOP\_EMAIL] = <SHOP\_EMAIL, varchar(50),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[SHOP]

WHERE <Search Conditions,,>

GO

**TICKET**

SELECT [TICKET\_NUM]

,[CUS\_ID]

,[CAR\_ID]

,[TICKET\_DATE]

,[TICKET\_TIME]

FROM [dbo].[TICKET]

GO

INSERT INTO [dbo].[TICKET]

([TICKET\_NUM]

,[CUS\_ID]

,[CAR\_ID]

,[TICKET\_DATE]

,[TICKET\_TIME])

VALUES

(<TICKET\_NUM, int,>

,<CUS\_ID, int,>

,<CAR\_ID, int,>

,<TICKET\_DATE, date,>

,<TICKET\_TIME, time(7),>)

GO

UPDATE [dbo].[TICKET]

SET [TICKET\_NUM] = <TICKET\_NUM, int,>

,[CUS\_ID] = <CUS\_ID, int,>

,[CAR\_ID] = <CAR\_ID, int,>

,[TICKET\_DATE] = <TICKET\_DATE, date,>

,[TICKET\_TIME] = <TICKET\_TIME, time(7),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[TICKET]

WHERE <Search Conditions,,>

GO

**TIME\_CARD**

SELECT [EMP\_ID]

,[TIME\_IN]

,[TIME\_OUT]

,[DATE]

,[N0\_HOURS\_PER\_WEEK]

FROM [dbo].[TIME\_CARD]

GO

INSERT INTO [dbo].[TIME\_CARD]

([EMP\_ID]

,[TIME\_IN]

,[TIME\_OUT]

,[DATE]

,[N0\_HOURS\_PER\_WEEK])

VALUES

(<EMP\_ID, int,>

,<TIME\_IN, time(7),>

,<TIME\_OUT, time(7),>

,<DATE, date,>

,<N0\_HOURS\_PER\_WEEK, float,>)

GO

UPDATE [dbo].[TIME\_CARD]

SET [EMP\_ID] = <EMP\_ID, int,>

,[TIME\_IN] = <TIME\_IN, time(7),>

,[TIME\_OUT] = <TIME\_OUT, time(7),>

,[DATE] = <DATE, date,>

,[N0\_HOURS\_PER\_WEEK] = <N0\_HOURS\_PER\_WEEK, float,>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[TIME\_CARD]

WHERE <Search Conditions,,>

GO

**VENDOR**

SELECT [VENDOR\_ID]

,[VENDOR\_NAME]

,[RECEIVE\_DATE]

,[PAYMENT\_STATUS]

,[TYPE\_OF\_PAYMENT]

FROM [dbo].[VENDOR]

GO

INSERT INTO [dbo].[VENDOR]

([VENDOR\_ID]

,[VENDOR\_NAME]

,[RECEIVE\_DATE]

,[PAYMENT\_STATUS]

,[TYPE\_OF\_PAYMENT])

VALUES

(<VENDOR\_ID, int,>

,<VENDOR\_NAME, nchar(10),>

,<RECEIVE\_DATE, date,>

,<PAYMENT\_STATUS, nchar(10),>

,<TYPE\_OF\_PAYMENT, nchar(10),>)

GO

UPDATE [dbo].[VENDOR]

SET [VENDOR\_ID] = <VENDOR\_ID, int,>

,[VENDOR\_NAME] = <VENDOR\_NAME, nchar(10),>

,[RECEIVE\_DATE] = <RECEIVE\_DATE, date,>

,[PAYMENT\_STATUS] = <PAYMENT\_STATUS, nchar(10),>

,[TYPE\_OF\_PAYMENT] = <TYPE\_OF\_PAYMENT, nchar(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[VENDOR]

WHERE <Search Conditions,,>

GO

**VENDOR\_PAYMENT**

SELECT [VENDOR\_PAYMENT\_ID]

,[VENDOR\_ID]

,[TOTAL\_AMT]

,[PAYMENT\_DATE]

,[PAYMENT\_STATUS]

FROM [dbo].[VENDOR\_PAYMENT]

GO

INSERT INTO [dbo].[VENDOR\_PAYMENT]

([VENDOR\_PAYMENT\_ID]

,[VENDOR\_ID]

,[TOTAL\_AMT]

,[PAYMENT\_DATE]

,[PAYMENT\_STATUS])

VALUES

(<VENDOR\_PAYMENT\_ID, int,>

,<VENDOR\_ID, int,>

,<TOTAL\_AMT, float,>

,<PAYMENT\_DATE, date,>

,<PAYMENT\_STATUS, char(10),>)

GO

UPDATE [dbo].[VENDOR\_PAYMENT]

SET [VENDOR\_PAYMENT\_ID] = <VENDOR\_PAYMENT\_ID, int,>

,[VENDOR\_ID] = <VENDOR\_ID, int,>

,[TOTAL\_AMT] = <TOTAL\_AMT, float,>

,[PAYMENT\_DATE] = <PAYMENT\_DATE, date,>

,[PAYMENT\_STATUS] = <PAYMENT\_STATUS, char(10),>

WHERE <Search Conditions,,>

GO

DELETE FROM [dbo].[VENDOR\_PAYMENT]

WHERE <Search Conditions,,>

GO