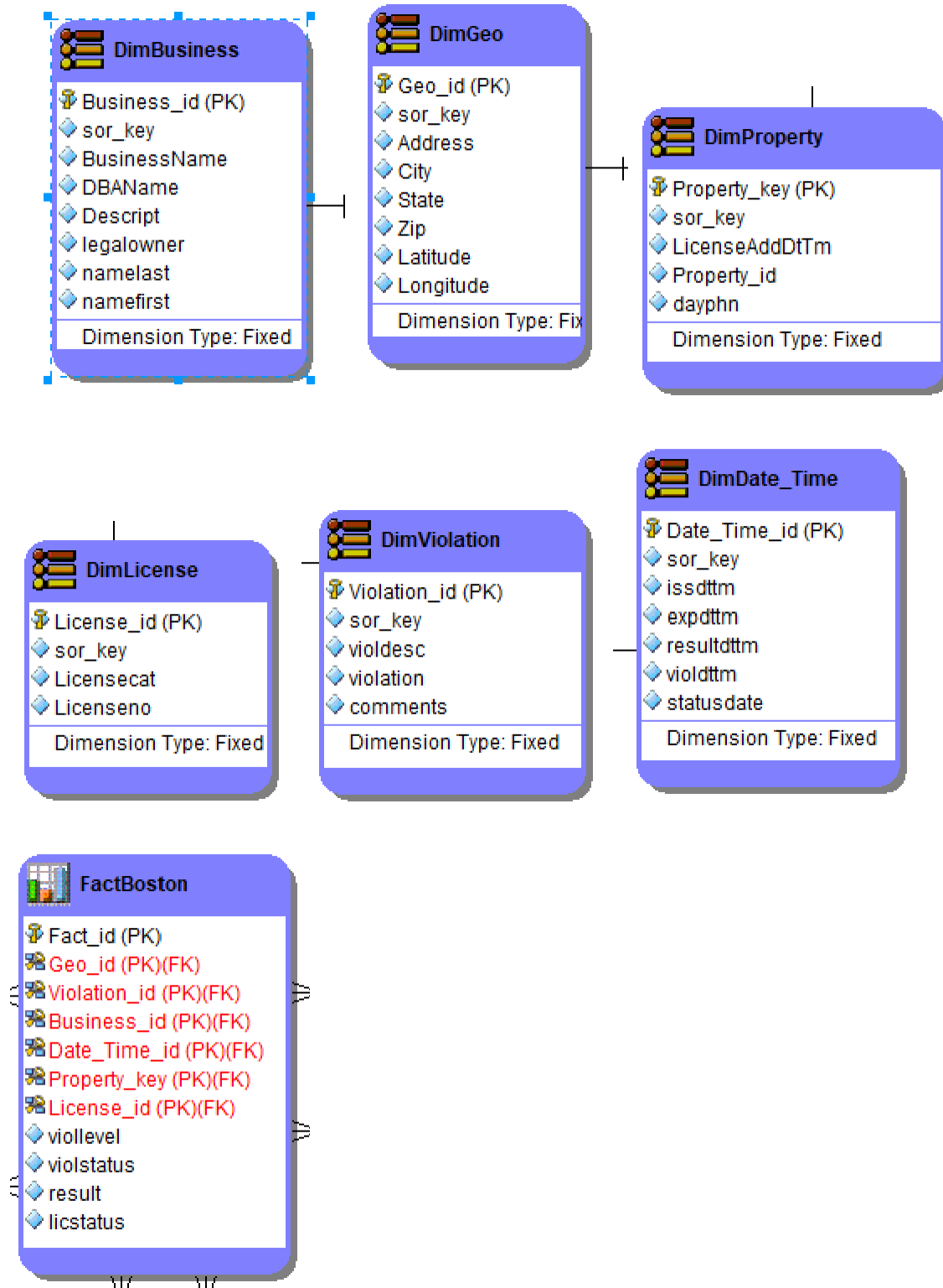
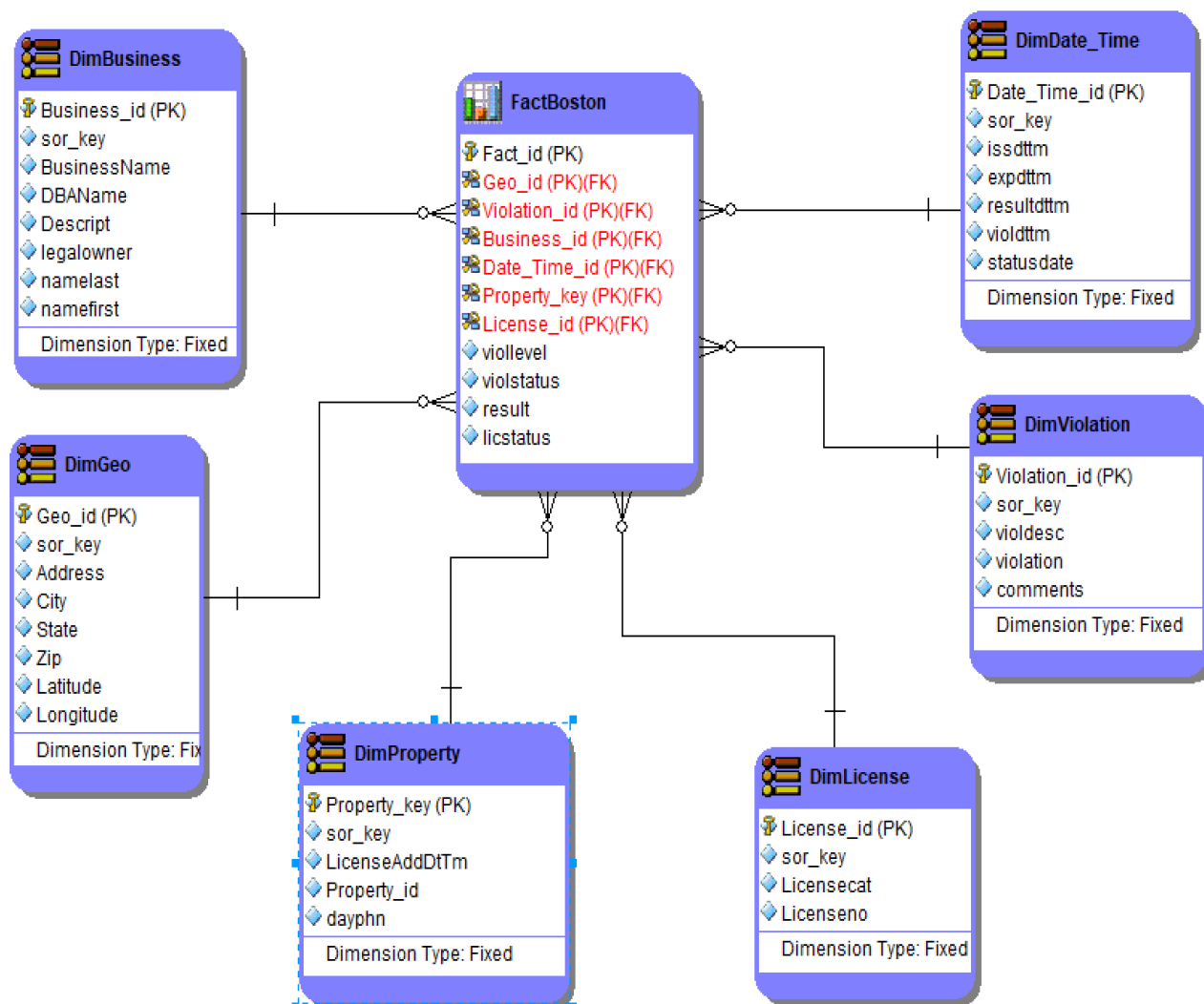


## Report - Boston Food Inspections

### 1. Identify Dimensions & Facts –



## 2. Dimensional Data Model –



### 3. DDL –

```
--  
-- ER/Studio Data Architect SQL Code Generation  
-- Project :    Boston_Final.DM1  
--  
-- Date Created : Friday, April 08, 2022 14:55:57  
-- Target DBMS : MySQL 8.x  
--
```

```
--  
-- TABLE: DimBusiness  
--
```

```
CREATE TABLE DimBusiness(  
    Business_id  int NOT NULL,  
    sor_key      int NOT NULL,  
    BusinessName CHAR(10),  
    DBAName      CHAR(10),  
    Descript     CHAR(10),  
    legalowner   CHAR(10),  
    namelast     CHAR(10),  
    namefirst    CHAR(10),  
    PRIMARY KEY (Business_id)  
)ENGINE=MYISAM  
;
```

```
--  
-- TABLE: DimDate_Time  
--
```

```
CREATE TABLE DimDate_Time(  
    Date_Time_id int NOT NULL,  
    sor_key      int NOT NULL,  
    issdtm       CHAR(10),  
    expdtm       CHAR(10),  
    resuldtm     CHAR(10),  
    violdtm      CHAR(10),  
    statusdate   CHAR(10),  
    PRIMARY KEY (Date_Time_id)  
)ENGINE=MYISAM  
;
```

```
--  
-- TABLE: DimGeo  
--
```

```
CREATE TABLE DimGeo(  
    Geo_id    int NOT NULL,  
    sor_key   int NOT NULL,  
    Address   CHAR(10),  
    City      CHAR(10),  
    State     CHAR(10),  
    Zip       CHAR(10),  
    Latitude  CHAR(10),  
    Longitude CHAR(10),  
    PRIMARY KEY (Geo_id)  
)ENGINE=MYISAM  
;
```

```
--  
-- TABLE: DimLicense  
--
```

```
CREATE TABLE DimLicense(  
    License_id int NOT NULL,  
    sor_key    int NOT NULL,  
    Licensecat CHAR(10),  
    Licenseno  CHAR(10),  
    PRIMARY KEY (License_id)  
)ENGINE=MYISAM  
;
```

```
--  
-- TABLE: DimProperty  
--
```

```
CREATE TABLE DimProperty(  
    Property_idvviewf int NOT NULL,  
    sor_key           int NOT NULL,  
    LicenseAddDtTm    CHAR(10),  
    Property_id       CHAR(10),  
    dayphn            CHAR(10),  
    PRIMARY KEY (Property_idvviewf)  
)ENGINE=MYISAM  
;
```

```
--  
-- TABLE: DimViolation  
--
```

```
CREATE TABLE DimViolation(  
    Violation_id int NOT NULL,  
    sor_key      int NOT NULL,  
    violdesc     CHAR(10),  
    violation     CHAR(10),  
    comments     CHAR(10),  
    PRIMARY KEY (Violation_id)  
)ENGINE=MYISAM  
;
```

```
--  
-- TABLE: FactBoston  
--
```

```
CREATE TABLE FactBoston(  
    Fact_id      int NOT NULL,  
    Geo_id       int NOT NULL,  
    Violation_id int NOT NULL,  
    Business_id  int NOT NULL,  
    Date_Time_id int NOT NULL,  
    Property_key int NOT NULL,  
    License_id   int NOT NULL,  
    viollevel    CHAR(10),  
    violstatus   CHAR(10),  
    result       CHAR(10),  
    licstatus    CHAR(10),  
    PRIMARY KEY (Fact_id, Geo_id, Violation_id, Business_id, Date_Time_id, Property_idvviewf, License_id)  
)ENGINE=MYISAM  
;
```

```
--  
-- TABLE: FactBoston  
--
```

```
ALTER TABLE FactBoston ADD CONSTRAINT RefDimDate_Time1  
    FOREIGN KEY (Date_Time_id)  
    REFERENCES DimDate_Time(Date_Time_id)  
;
```

```
ALTER TABLE FactBoston ADD CONSTRAINT RefDimGeo2
    FOREIGN KEY (Geo_id)
    REFERENCES DimGeo(Geo_id)
;
```

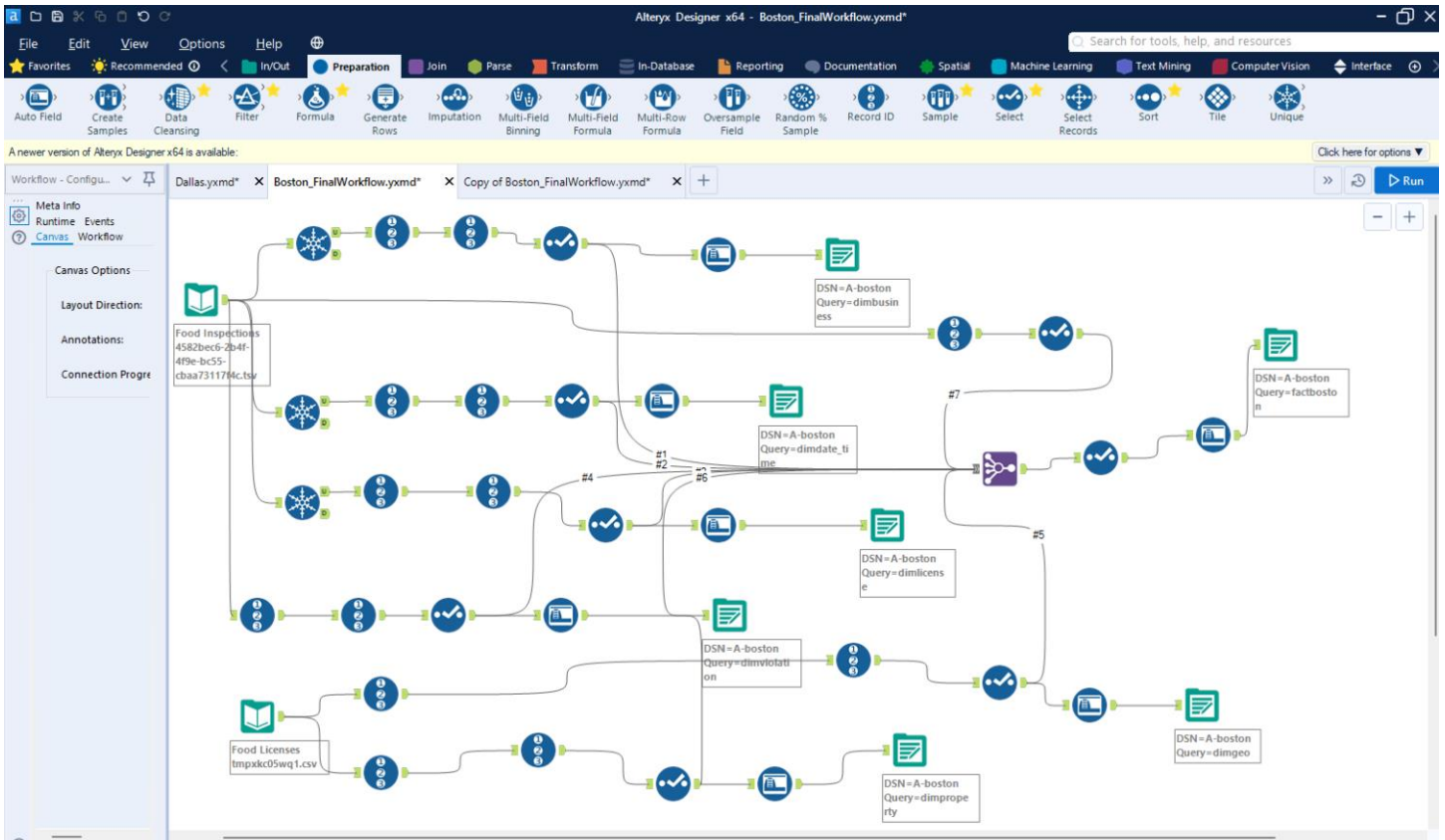
```
ALTER TABLE FactBoston ADD CONSTRAINT RefDimBusiness3
    FOREIGN KEY (Business_id)
    REFERENCES DimBusiness(Business_id)
;
```

```
ALTER TABLE FactBoston ADD CONSTRAINT RefDimViolation4
    FOREIGN KEY (Violation_id)
    REFERENCES DimViolation(Violation_id)
;
```

```
ALTER TABLE FactBoston ADD CONSTRAINT RefDimProperty5
    FOREIGN KEY (Property_idvviewf)
    REFERENCES DimProperty(Property_idvviewf)
;
```

```
ALTER TABLE FactBoston ADD CONSTRAINT RefDimLicense6
    FOREIGN KEY (License_id)
    REFERENCES DimLicense(License_id)
;
```

## 4. Data Preparation Workflow –



## 5. Table row counts –

The screenshot shows the MySQL Workbench interface with a query executed in the "SQL File 9" tab. The query is:

```
select count(*) from assignment_boston.factboston;
```

The result is displayed in the "Result Grid" at the bottom, showing a single row with the count:

count(*)
683097

The left sidebar shows the "SCHEMAS" tree, with the "assignment\_boston" database selected. The "factboston" table is highlighted under the "Tables" section. The top status bar indicates "Local instance MySQL80" and "Limit to 1000 rows".

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

adventureworks2019\_scd

assignment\_boston

Tables

dimbusiness

dimdate\_time

dimgeo

dimlicense

dimproperty

dimviolation

factboston

Views

Stored Procedures

Functions

assignment\_dallas

bakery

boston

boston\_final

chinook

dallas

DDL\_university DDL\_Boston dimbusiness dimdate\_time dimgeo dimlicense dimproperty dimviolation SQL File 9'

Limit to 1000 rows

1 • select count(\*) FROM assignment\_boston.dimviolation;

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

count(\*)

683097

Result Grid

Automatic disabled. U manually current ca toggle a

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

adventureworks2019\_scd

assignment\_boston

Tables

dimbusiness

dimdate\_time

dimgeo

dimlicense

dimproperty

dimviolation

factboston

Views

Stored Procedures

Functions

assignment\_dallas

bakery

boston

boston\_final

chinook

dallas

DDL\_university DDL\_Boston dimbusiness dimdate\_time dimgeo dimlicense dimproperty SQL File 9'

Limit to 1000 rows

1 • select count(\*) FROM assignment\_boston.dimproperty;

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

count(\*)

2954

Result Grid

Autom disabled; manu current togg

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

adventureworks2019\_scd

assignment\_boston

Tables

dimbusiness

dimdate\_time

dimgeo

dimlicense

dimproperty

dimviolation

factboston

Views

Stored Procedures

Functions

assignment\_dallas

bakery

boston

boston\_final

chinook

dallas

DDL\_university DDL\_Boston dimbusiness dimdate\_time dimgeo dimlicense SQL File 9'

Limit to 1000 rows

1 • select count(\*) FROM assignment\_boston.dimlicense;

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

count(\*)

9291

Result Grid

Auton disable manu curren togg



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

adventureworks2019\_scd

assignment\_boston

Tables

dimbusiness

dimdate\_time

dimgeo

dimlicense

dimproperty

dimviolation

factboston

Views

Stored Procedures

Functions

assignment\_dallas

bakery

boston

boston\_final

chinook

dallas

DDL\_university

DDL\_Boston

dimbusiness

dimdate\_time

dimgeo

SQL File 9\*

Limit to 1000 rows

1 • select count(\*) FROM assignment\_boston.dimgeo;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

count(\*)

2954

Result Grid

SQLAdditions

Automatically disabled manually current toggle

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

adventureworks2019\_scd

assignment\_boston

Tables

dimbusiness

dimdate\_time

dimgeo

dimlicense

dimproperty

dimviolation

factboston

Views

Stored Procedures

Functions

assignment\_dallas

bakery

boston

boston\_final

chinook

dallas

pet

DDL\_university

DDL\_Boston

dimbusiness

dimdate\_time

SQL File 9\*

Limit to 1000 rows

1 • select count(\*) FROM assignment\_boston.dimdate\_time;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

count(\*)

683097

Result Grid

SQLAdditions

Automatically disabled manually current toggle

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

adventureworks2019\_scd

assignment\_boston

Tables

dimbusiness

dimdate\_time

dimgeo

dimlicense

dimproperty

dimviolation

factboston

Views

Stored Procedures

Functions

assignment\_dallas

bakery

boston

boston\_final

chinook

dallas

pet

DDL\_university

DDL\_Boston

dimbusiness

SQL File 9\*

Limit to 1000 rows

1 • select count(\*) FROM assignment\_boston.dimbusiness;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

count(\*)

7833

Result Grid

SQLAdditions

Automatically disabled manually current toggle