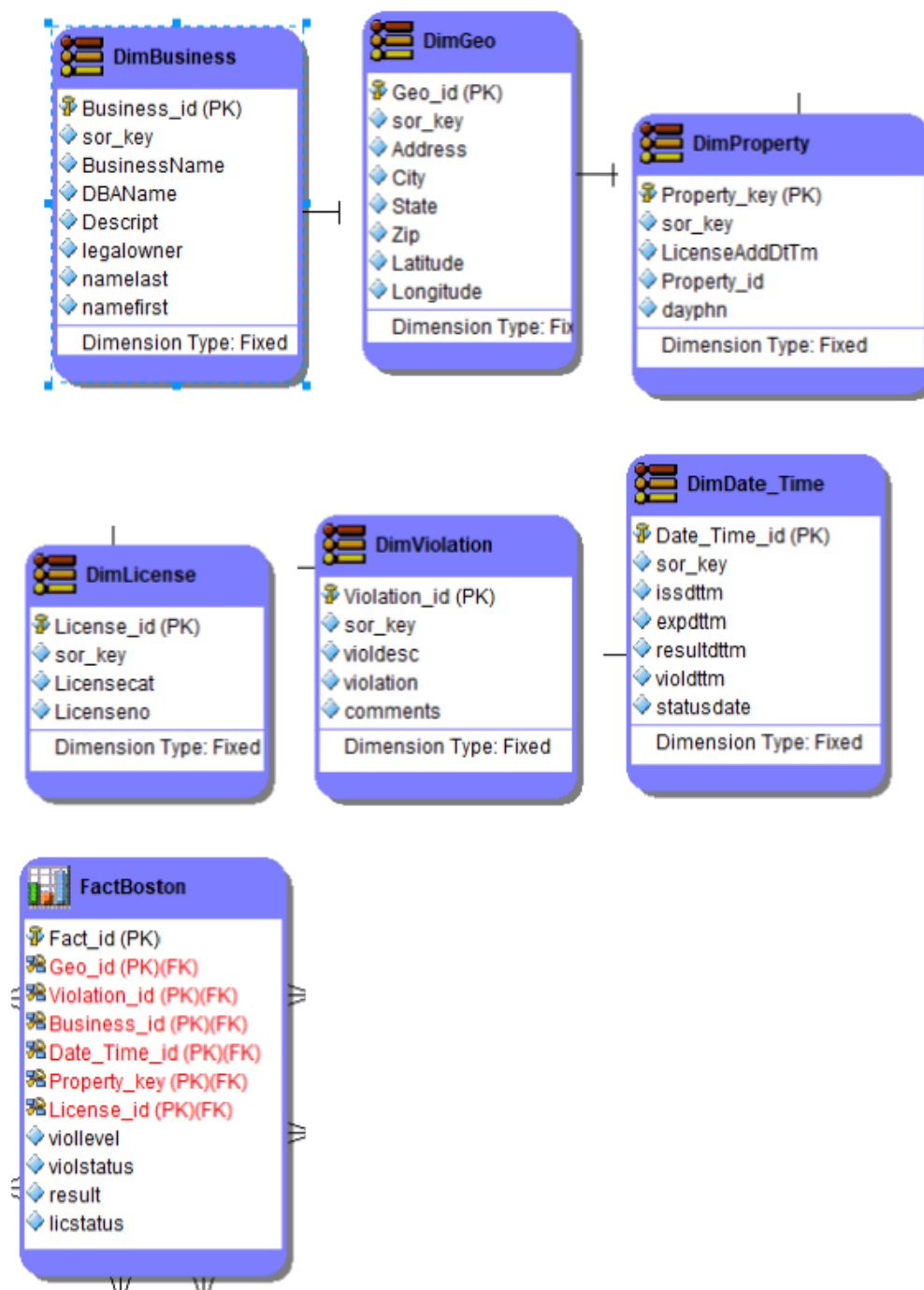
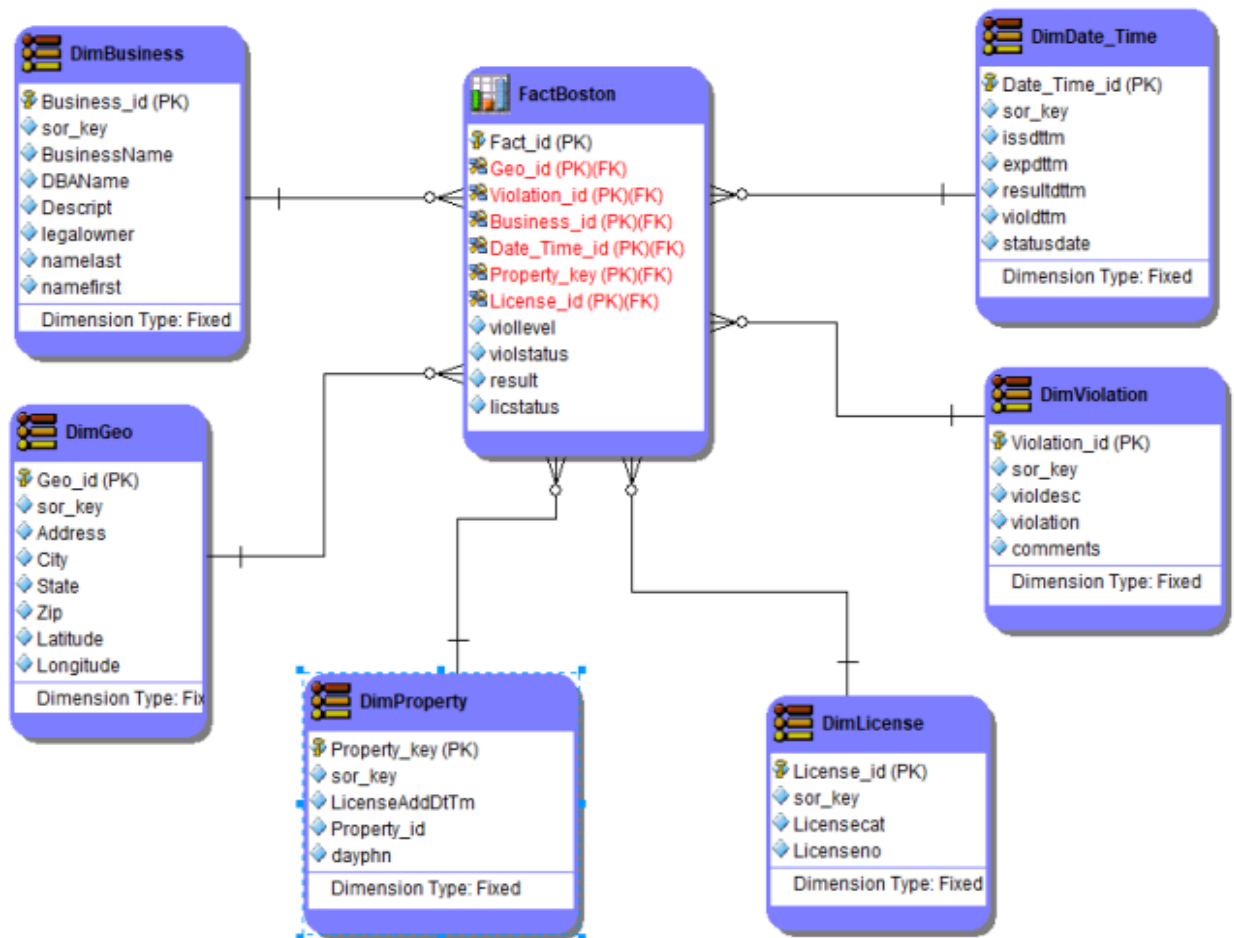


Report - Boston Food Inspections

1. Identify Dimensions & Facts –



2. Dimensional Data Model



3. DDL Schema

-- 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),
    resultdtm 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)
;
```

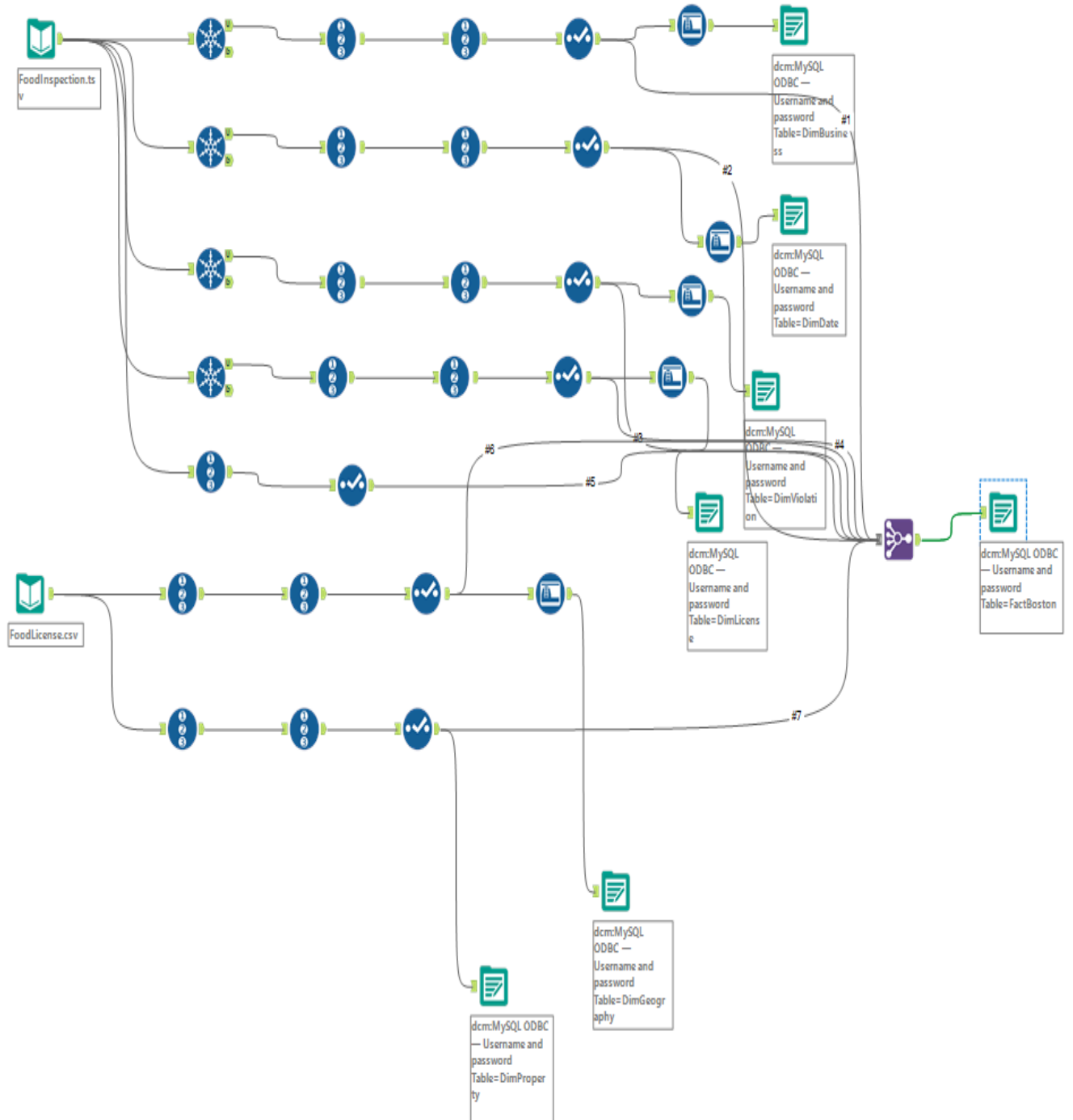
```
ALTER TABLE FactBoston ADD CONSTRAINT RefDimBusiness3
    FOREIGN KEY (Business_id)
    REFERENCES DimBusiness(Business_id)
;
```

```
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 Alteryx Workflow



5. Table row counts

```
1 • select count(*) from dimproperty
2
```

Result Grid	Filter Rows:	Export:
count(*)		
▶ 3147		

```
1 • select count(*) from dimviolation
2
```

Result Grid	Filter Rows:	Export:
count(*)		
▶ 797667		


```
1 • select count(*) from dimlicense
2
```

Result Grid



Filter Rows:

Export

	count(*)
▶	10353

```
1 select count(*) from dimdate
```

Result Grid



Filter Rows:

Export:

	count(*)
▶	797667

```
1      select count(*) from dimbusiness
```

Result Grid			Filter Rows:	<input type="text"/>	Export:	
	count(*)					
▶	8631					

Limit to 1000 rows

```
1 •      select count(*) from factboston
2
```

Result Grid			Filter Rows:	<input type="text"/>	Export:		Wra
	count(*)						
▶	797667						

1 • `select count(*) from dimgeography`

Result Grid



Filter Rows:

Export:



	count(*)
▶	3147