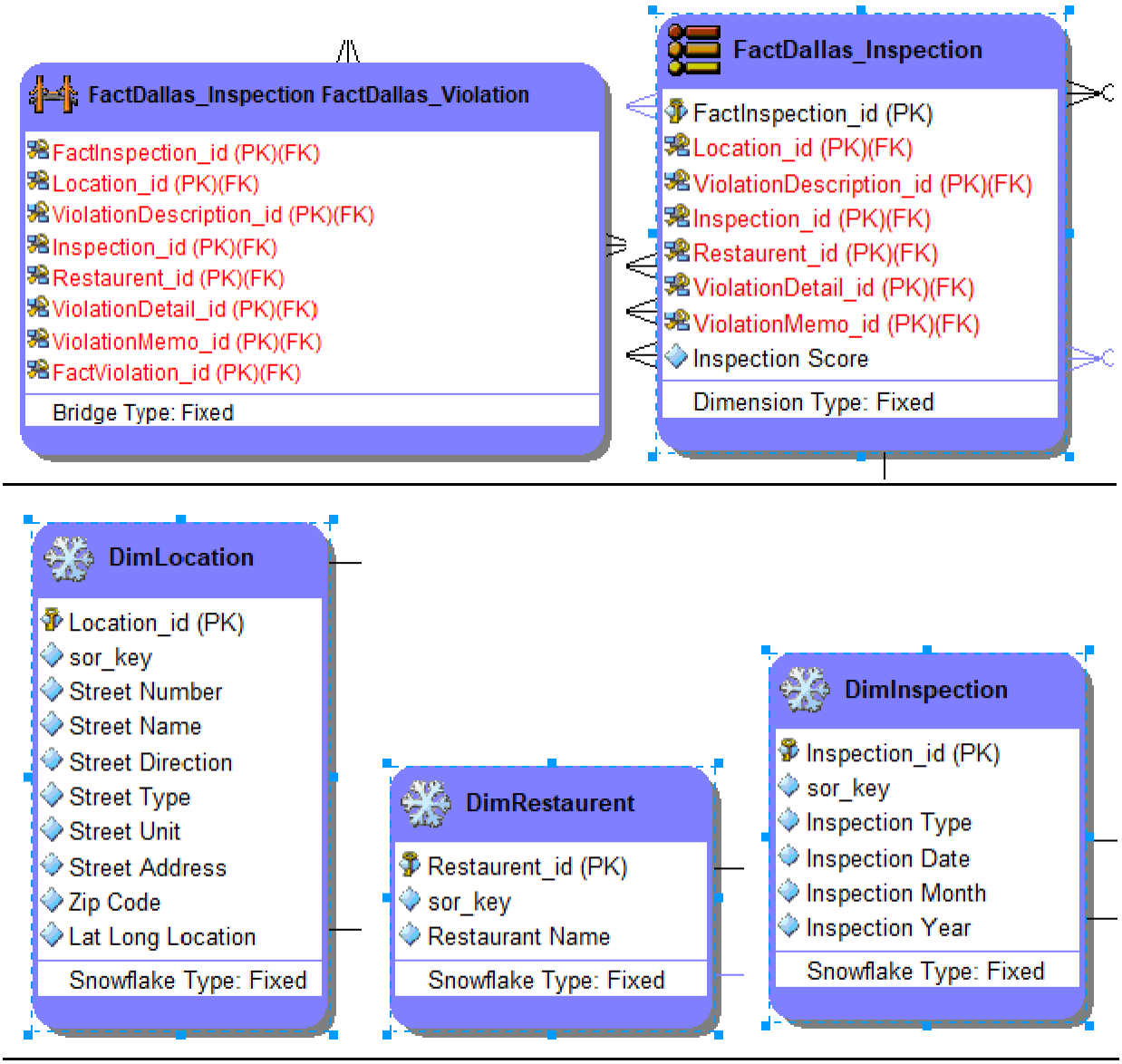
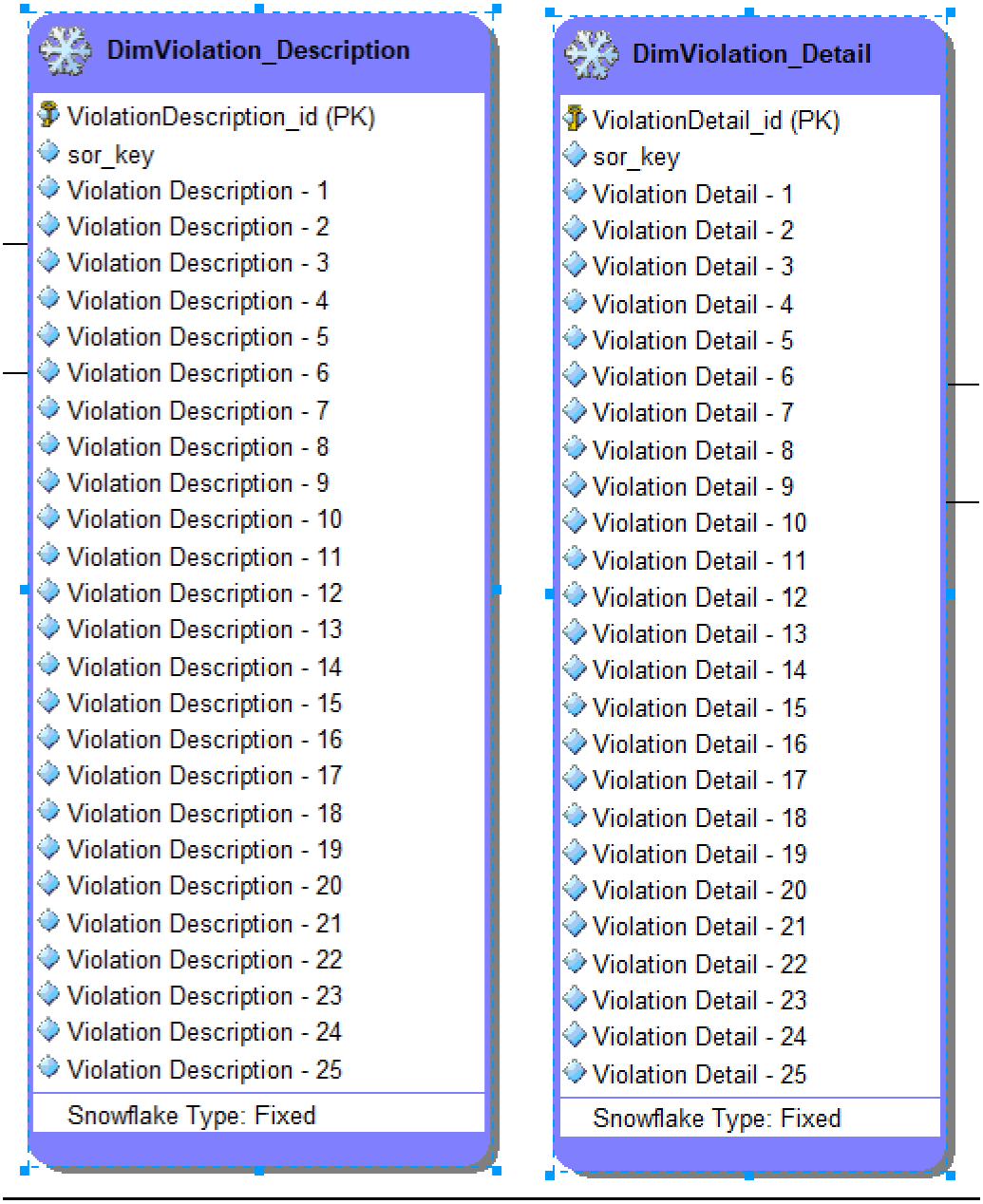
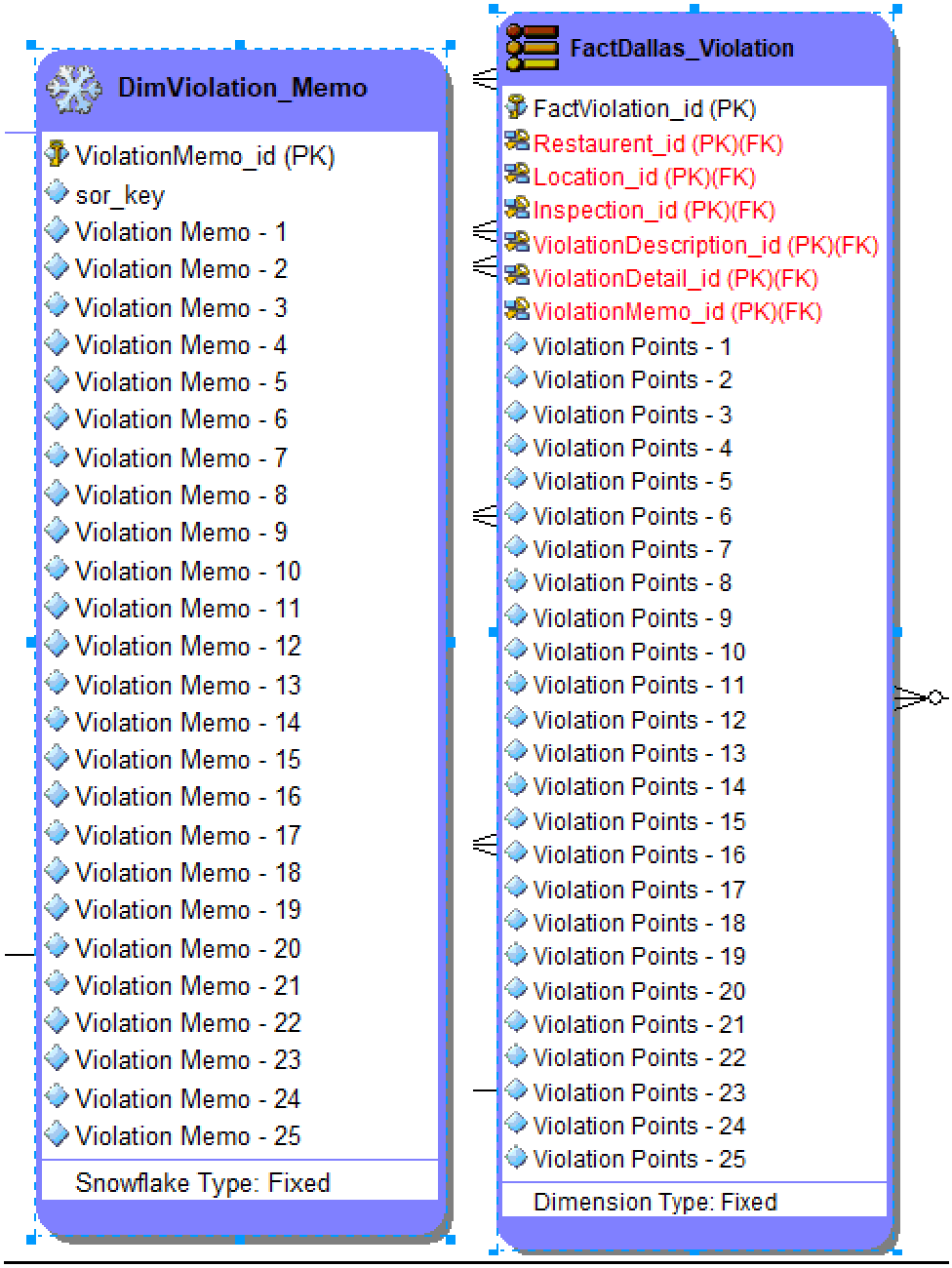
Report - Dallas Food Inspections

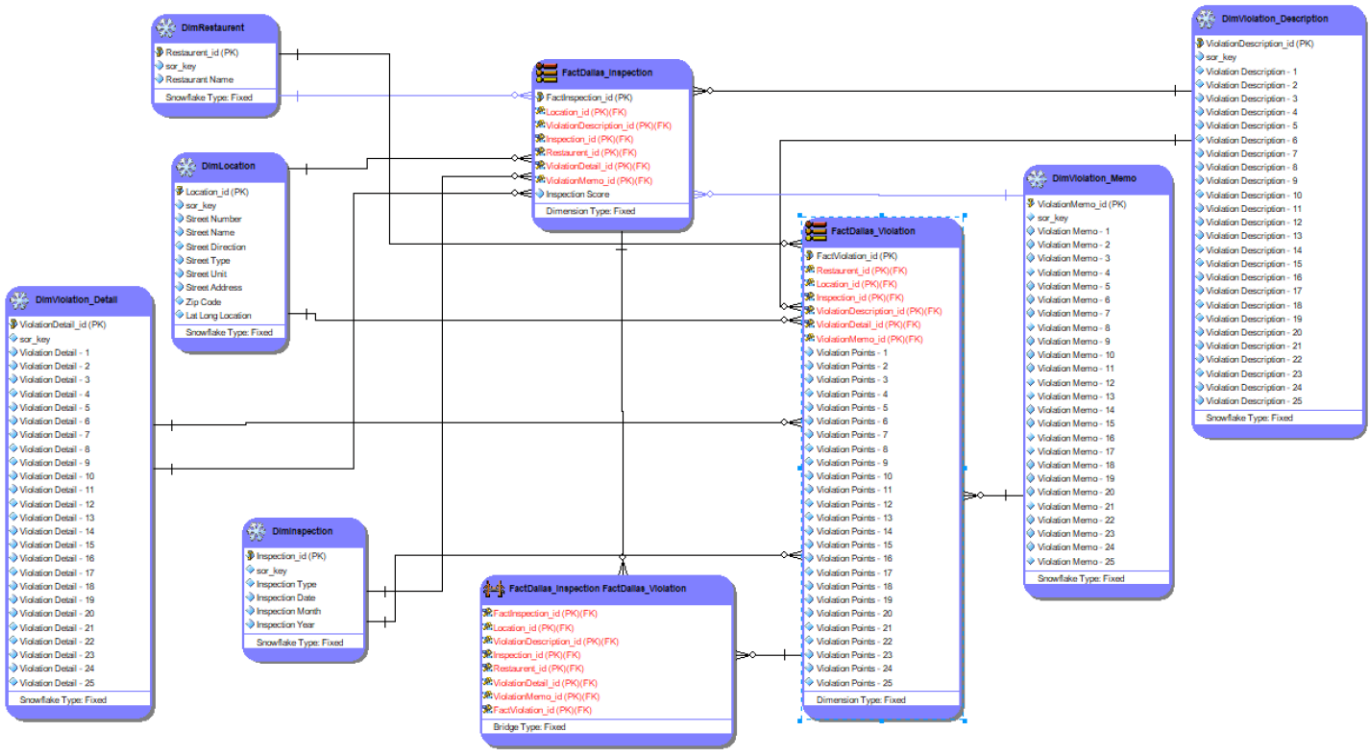
1. Identify Dimensions & Facts –




DimViolation_Description
ViolationDescription_id (PK)
sor_key
Violation Description - 1
Violation Description - 2
Violation Description - 3
Violation Description - 4
Violation Description - 5
Violation Description - 6
Violation Description - 7
Violation Description - 8
Violation Description - 9
Violation Description - 10
Violation Description - 11
Violation Description - 12
Violation Description - 13
Violation Description - 14
Violation Description - 15
Violation Description - 16
Violation Description - 17
Violation Description - 18
Violation Description - 19
Violation Description - 20
Violation Description - 21
Violation Description - 22
Violation Description - 23
Violation Description - 24
Violation Description - 25
Snowflake Type: Fixed
DimViolation_Detail
ViolationDetail_id (PK)
sor_key
Violation Detail - 1
Violation Detail - 2
Violation Detail - 3
Violation Detail - 4
Violation Detail - 5
Violation Detail - 6
Violation Detail - 7
Violation Detail - 8
Violation Detail - 9
Violation Detail - 10
Violation Detail - 11
Violation Detail - 12
Violation Detail - 13
Violation Detail - 14
Violation Detail - 15
Violation Detail - 16
Violation Detail - 17
Violation Detail - 18
Violation Detail - 19
Violation Detail - 20
Violation Detail - 21
Violation Detail - 22
Violation Detail - 23
Violation Detail - 24
Violation Detail - 25
Snowflake Type: Fixed


DimViolation_Memo
ViolationMemo_id (PK)
sor_key
Violation Memo - 1
Violation Memo - 2
Violation Memo - 3
Violation Memo - 4
Violation Memo - 5
Violation Memo - 6
Violation Memo - 7
Violation Memo - 8
Violation Memo - 9
Violation Memo - 10
Violation Memo - 11
Violation Memo - 12
Violation Memo - 13
Violation Memo - 14
Violation Memo - 15
Violation Memo - 16
Violation Memo - 17
Violation Memo - 18
Violation Memo - 19
Violation Memo - 20
Violation Memo - 21
Violation Memo - 22
Violation Memo - 23
Violation Memo - 24
Violation Memo - 25
Snowflake Type: Fixed
FactDallas_Violation
FactViolation_id (PK)
Restaurent_id (PK)(FK)
Location_id (PK)(FK)
Inspection_id (PK)(FK)
ViolationDescription_id (PK)(FK)
ViolationDetail_id (PK)(FK)
ViolationMemo_id (PK)(FK)
Violation Points - 1
Violation Points - 2
Violation Points - 3
Violation Points - 4
Violation Points - 5
Violation Points - 6
Violation Points - 7
Violation Points - 8
Violation Points - 9
Violation Points - 10
Violation Points - 11
Violation Points - 12
Violation Points - 13
Violation Points - 14
Violation Points - 15
Violation Points - 16
Violation Points - 17
Violation Points - 18
Violation Points - 19
Violation Points - 20
Violation Points - 21
Violation Points - 22
Violation Points - 23
Violation Points - 24
Violation Points - 25
Dimension Type: Fixed

2. Dimensional Data model –



3. DDL –

```
--
-- ER/Studio Data Architect SQL Code Generation
-- Project :      Dallas.DM1
--
-- Date Created : Friday, April 08, 2022 14:56:51
-- Target DBMS : MySQL 8.x
--
--
-- TABLE: DimInspection
--
CREATE TABLE DimInspection(
    Inspection_id       int NOT NULL,
    sor_key          int NOT NULL,
    `Inspection Type`    CHAR(10),
    `Inspection Date`    date,
    `Inspection Month`   CHAR(10),
    `Inspection Year`    CHAR(10),
    PRIMARY KEY (Inspection_id)
)
;
--
-- TABLE: DimLocation
--
CREATE TABLE DimLocation(
    Location_id         int NOT NULL,
    sor_key           int NOT NULL,
    `Street Number`      int,
    `Street Name`        CHAR(10),
    `Street Direction`   CHAR(10),
    `Street Type`        CHAR(10),
    `Street Unit`        CHAR(10),
```

```
    `Street Address`     CHAR(10),
    `Zip Code`           int,
    `Lat Long Location`  CHAR(10),
    PRIMARY KEY (Location_id)
)
;
--
-- TABLE: DimRestaurent
--
CREATE TABLE DimRestaurent(
    Restaurent_id      int NOT NULL,
    sor_key            int NOT NULL,
    `Restaurant Name`  CHAR(10),
    PRIMARY KEY (Restaurent_id)
)
;
--
-- TABLE: DimViolation_Description
--
CREATE TABLE DimViolation_Description(
    ViolationDescription_id       int NOT NULL,
    sor_key                       int NOT NULL,
    `Violation Description - 1`   CHAR(10),
    `Violation Description - 2`   CHAR(10),
    `Violation Description - 3`   CHAR(10),
    `Violation Description - 4`   CHAR(10),
    `Violation Description - 5`   CHAR(10),
    `Violation Description - 6`   CHAR(10),
    `Violation Description - 7`   CHAR(10),
    `Violation Description - 8`   CHAR(10),
    `Violation Description - 9`   CHAR(10),
    `Violation Description - 10`  CHAR(10),
```

```
    `Violation Description - 11`  CHAR(10),
    `Violation Description - 12`  CHAR(10),
    `Violation Description - 13`  CHAR(10),
    `Violation Description - 14`  CHAR(10),
    `Violation Description - 15`  CHAR(10),
    `Violation Description - 16`  CHAR(10),
    `Violation Description - 17`  CHAR(10),
    `Violation Description - 18`  CHAR(10),
    `Violation Description - 19`  CHAR(10),
    `Violation Description - 20`  CHAR(10),
    `Violation Description - 21`  CHAR(10),
    `Violation Description - 22`  CHAR(10),
    `Violation Description - 23`  CHAR(10),
    `Violation Description - 24`  CHAR(10),
    `Violation Description - 25`  CHAR(10),
    PRIMARY KEY (ViolationDescription_id)
)
;
--
-- TABLE: DimViolation_Detail
--
CREATE TABLE DimViolation_Detail(
     ViolationDetail_id           int NOT NULL,
    sor_key                int NOT NULL,
    `Violation Detail - 1`   CHAR(10),
    `Violation Detail - 2`   CHAR(10),
    `Violation Detail - 3`   CHAR(10),
    `Violation Detail - 4`   CHAR(10),
    `Violation Detail - 5`   CHAR(10),
    `Violation Detail - 6`   CHAR(10),
    `Violation Detail - 7`   CHAR(10),
    `Violation Detail - 8`   CHAR(10),
```

```
    `Violation Detail - 9`   CHAR(10),
    `Violation Detail - 10`  CHAR(10),
    `Violation Detail - 11`  CHAR(10),
    `Violation Detail - 12`  CHAR(10),
    `Violation Detail - 13`  CHAR(10),
    `Violation Detail - 14`  CHAR(10),
    `Violation Detail - 15`  CHAR(10),
    `Violation Detail - 16`  CHAR(10),
    `Violation Detail - 17`  CHAR(10),
    `Violation Detail - 18`  CHAR(10),
    `Violation Detail - 19`  CHAR(10),
    `Violation Detail - 20`  CHAR(10),
    `Violation Detail - 21`  CHAR(10),
    `Violation Detail - 22`  CHAR(10),
    `Violation Detail - 23`  CHAR(10),
    `Violation Detail - 24`  CHAR(10),
    `Violation Detail - 25`  CHAR(10),
    PRIMARY KEY ( ViolationDetail_id)
)
;
--
-- TABLE: DimViolation_Memo
--
CREATE TABLE DimViolation_Memo(
    ViolationMemo_id       int NOT NULL,
    sor_key                int NOT NULL,
    `Violation Memo - 1`   CHAR(10),
    `Violation Memo - 2`   CHAR(10),
    `Violation Memo - 3`   CHAR(10),
    `Violation Memo - 4`   CHAR(10),
    `Violation Memo - 5`   CHAR(10),
    `Violation Memo - 6`   CHAR(10),
```

```
    `Violation Memo - 7`   CHAR(10),
    `Violation Memo - 8`   CHAR(10),
    `Violation Memo - 9`   CHAR(10),
    `Violation Memo - 10`  CHAR(10),
    `Violation Memo - 11`  CHAR(10),
    `Violation Memo - 12`  CHAR(10),
    `Violation Memo - 13`  CHAR(10),
    `Violation Memo - 14`  CHAR(10),
    `Violation Memo - 15`  CHAR(10),
    `Violation Memo - 16`  CHAR(10),
    `Violation Memo - 17`  CHAR(10),
    `Violation Memo - 18`  CHAR(10),
    `Violation Memo - 19`  CHAR(10),
    `Violation Memo - 20`  CHAR(10),
    `Violation Memo - 21`  CHAR(10),
    `Violation Memo - 22`  CHAR(10),
    `Violation Memo - 23`  CHAR(10),
    `Violation Memo - 24`  CHAR(10),
    `Violation Memo - 25`  CHAR(10),
    PRIMARY KEY (ViolationMemo_id)
)
;
--
-- TABLE: FactDallas_Inspection
--
CREATE TABLE FactDallas_Inspection(
    FactInspection_id         int NOT NULL,
    Location_id               int NOT NULL,
    ViolationDescription_id   int NOT NULL,
    Inspection_id             int NOT NULL,
    Restaurent_id             int NOT NULL,
    ViolationDetail_id        int NOT NULL,
```

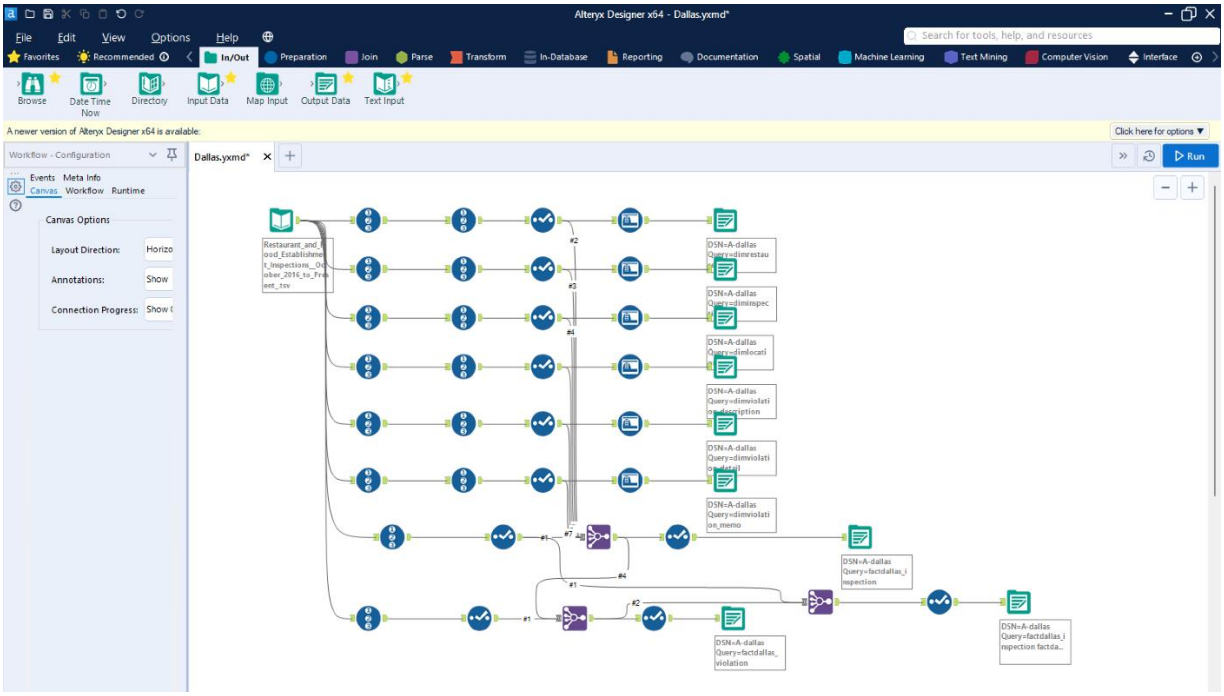
```
    ViolationMemo_id          int NOT NULL,
    `Inspection Score`        int,
    PRIMARY KEY (FactInspection_id, Location_id, ViolationDescription_id, Inspection_id, Restaurent_id,
ViolationDetail_id , ViolationMemo_id)
)ENGINE=MYISAM
;
--
-- TABLE: `FactDallas_Inspection FactDallas_Violation`
--
CREATE TABLE `FactDallas_Inspection FactDallas_Violation`(
    FactInspection_id         int NOT NULL,
    Location_id               int NOT NULL,
    ViolationDescription_id   int NOT NULL,
    Inspection_id             int NOT NULL,
    Restaurent_id             int NOT NULL,
    ViolationDetail_id              int NOT NULL,
    ViolationMemo_id          int NOT NULL,
    FactViolation_id          int NOT NULL,
    PRIMARY KEY (FactInspection_id, Location_id, ViolationDescription_id, Inspection_id, Restaurent_id,
ViolationDetail_id , ViolationMemo_id, FactViolation_id)
)ENGINE=MYISAM
;
--
-- TABLE: FactDallas_Violation
--
CREATE TABLE FactDallas_Violation(
    FactViolation_id          int NOT NULL,
    Restaurent_id             int NOT NULL,
    Location_id               int NOT NULL,
    Inspection_id             int NOT NULL,
    ViolationDescription_id   int NOT NULL,
     ViolationDetail_id              int NOT NULL,
    ViolationMemo_id          int NOT NULL,
```

```
    `Violation Points - 1`     CHAR(10),
    `Violation Points - 2`     CHAR(10),
    `Violation Points - 3`     CHAR(10),
    `Violation Points - 4`     CHAR(10),
    `Violation Points - 5`     CHAR(10),
    `Violation Points - 6`     CHAR(10),
    `Violation Points - 7`     CHAR(10),
    `Violation Points - 8`     CHAR(10),
    `Violation Points - 9`     CHAR(10),
    `Violation Points - 10`    CHAR(10),
    `Violation Points - 11`    CHAR(10),
    `Violation Points - 12`    CHAR(10),
    `Violation Points - 13`    CHAR(10),
    `Violation Points - 14`    CHAR(10),
    `Violation Points - 15`    CHAR(10),
    `Violation Points - 16`    CHAR(10),
    `Violation Points - 17`    CHAR(10),
    `Violation Points - 18`    CHAR(10),
    `Violation Points - 19`    CHAR(10),
    `Violation Points - 20`    CHAR(10),
    `Violation Points - 21`    CHAR(10),
    `Violation Points - 22`    CHAR(10),
    `Violation Points - 23`    CHAR(10),
    `Violation Points - 24`    CHAR(10),
    `Violation Points - 25`    CHAR(10),
    PRIMARY KEY (FactViolation_id, Restaurent_id, Location_id, Inspection_id, ViolationDescription_id, ViolationDetail_id
, ViolationMemo_id)
)
;
--
-- TABLE: FactDallas_Inspection
--
```

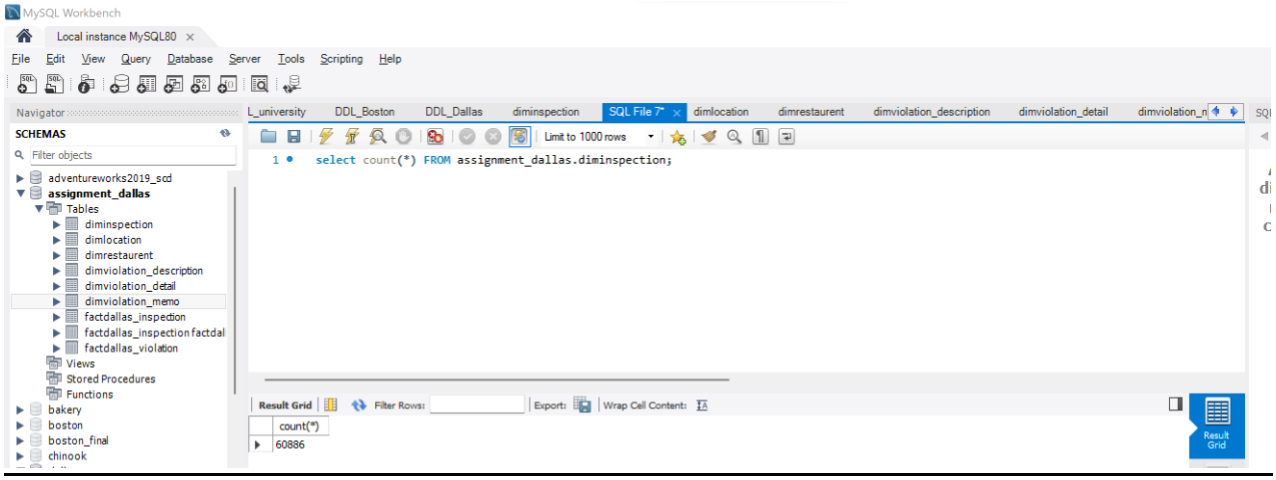
```
ALTER TABLE FactDallas_Inspection ADD CONSTRAINT RefDimLocation1
   FOREIGN KEY (Location_id)
   REFERENCES DimLocation(Location_id)
;
ALTER TABLE FactDallas_Inspection ADD CONSTRAINT RefDimViolation_Description2
   FOREIGN KEY (ViolationDescription_id)
   REFERENCES DimViolation_Description(ViolationDescription_id)
;
ALTER TABLE FactDallas_Inspection ADD CONSTRAINT RefDimInspection3
   FOREIGN KEY (Inspection_id)
   REFERENCES DimInspection(Inspection_id)
;
ALTER TABLE FactDallas_Inspection ADD CONSTRAINT RefDimRestaurent5
   FOREIGN KEY (Restaurent_id)
   REFERENCES DimRestaurent(Restaurent_id)
;
ALTER TABLE FactDallas_Inspection ADD CONSTRAINT RefDimViolation_Detail16
   FOREIGN KEY (ViolationDetail_id )
   REFERENCES DimViolation_Detail(ViolationDetail_id )
;
ALTER TABLE FactDallas_Inspection ADD CONSTRAINT RefDimViolation_Memo17
   FOREIGN KEY (ViolationMemo_id)
   REFERENCES DimViolation_Memo(ViolationMemo_id)
;
--
-- TABLE: `FactDallas_Inspection FactDallas_Violation`
--
ALTER TABLE `FactDallas_Inspection FactDallas_Violation` ADD CONSTRAINT RefFactDallas_Inspection20
   FOREIGN KEY (FactInspection_id, Location_id, ViolationDescription_id, Inspection_id, Restaurent_id,
ViolationDetail_id , ViolationMemo_id)
   REFERENCES FactDallas_Inspection(FactInspection_id, Location_id, ViolationDescription_id, Inspection_id,
Restaurent_id, ViolationDetail_id , ViolationMemo_id)
;
```

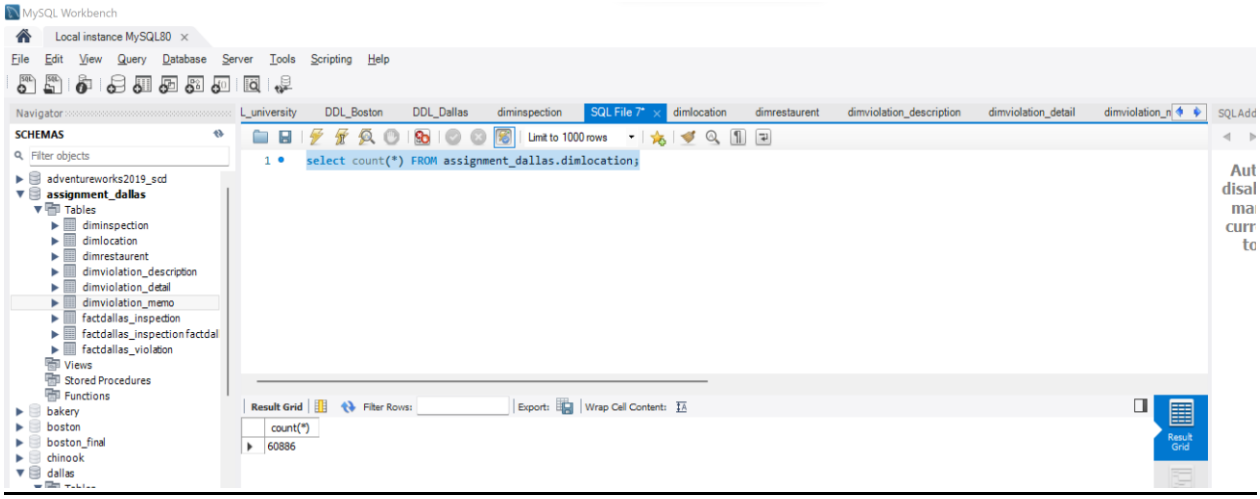
```
ALTER TABLE `FactDallas_Inspection FactDallas_Violation` ADD CONSTRAINT RefFactDallas_Violation21
   FOREIGN KEY (FactViolation_id, Restaurent_id, Location_id, Inspection_id, ViolationDescription_id, ViolationDetail_id , ViolationMemo_id)
   REFERENCES FactDallas_Violation(FactViolation_id, Restaurent_id, Location_id, Inspection_id, ViolationDescription_id, ViolationDetail_id , ViolationMemo_id)
;
--
-- TABLE: FactDallas_Violation
--
ALTER TABLE FactDallas_Violation ADD CONSTRAINT RefDimViolation_Detail18
   FOREIGN KEY (ViolationDetail_id )
   REFERENCES DimViolation_Detail(ViolationDetail_id )
;
ALTER TABLE FactDallas_Violation ADD CONSTRAINT RefDimViolation_Memo19
   FOREIGN KEY (ViolationMemo_id)
   REFERENCES DimViolation_Memo(ViolationMemo_id)
;
ALTER TABLE FactDallas_Violation ADD CONSTRAINT RefDimRestaurent6
   FOREIGN KEY (Restaurent_id)
   REFERENCES DimRestaurent(Restaurent_id)
;
ALTER TABLE FactDallas_Violation ADD CONSTRAINT RefDimLocation7
   FOREIGN KEY (Location_id)
   REFERENCES DimLocation(Location_id)
;
ALTER TABLE FactDallas_Violation ADD CONSTRAINT RefDimInspection8
   FOREIGN KEY (Inspection_id)
   REFERENCES DimInspection(Inspection_id)
;
ALTER TABLE FactDallas_Violation ADD CONSTRAINT RefDimViolation_Description9
   FOREIGN KEY (ViolationDescription_id)
   REFERENCES DimViolation_Description(ViolationDescription_id)
;
```

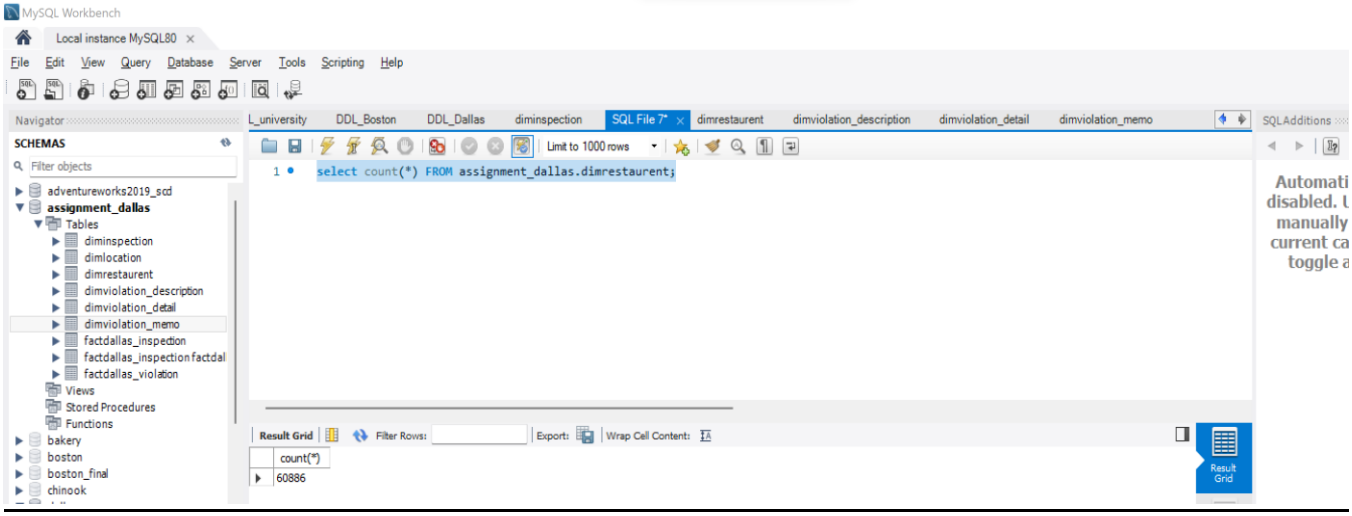
4. Data preparation workflow –



5. Table row counts –






MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
adventureworks2019_scd
assignment_dallas
Tables
diminspection
dimlocation
dimrestaurent
dimviolation_description
dimviolation_detail
dimviolation_memo
factdallas_inspection
factdallas_inspection factdal
factdallas_violation
Views
Stored Procedures
Functions
bakery
boston
boston_final
chinook
L_university
DDL_Boston
DDL_Dallas
diminspection
SQL File 7*
dimrestaurent
dimviolation_description
dimviolation_detail
dimviolation_memo
SQLAdditions
Limit to 1000 rows
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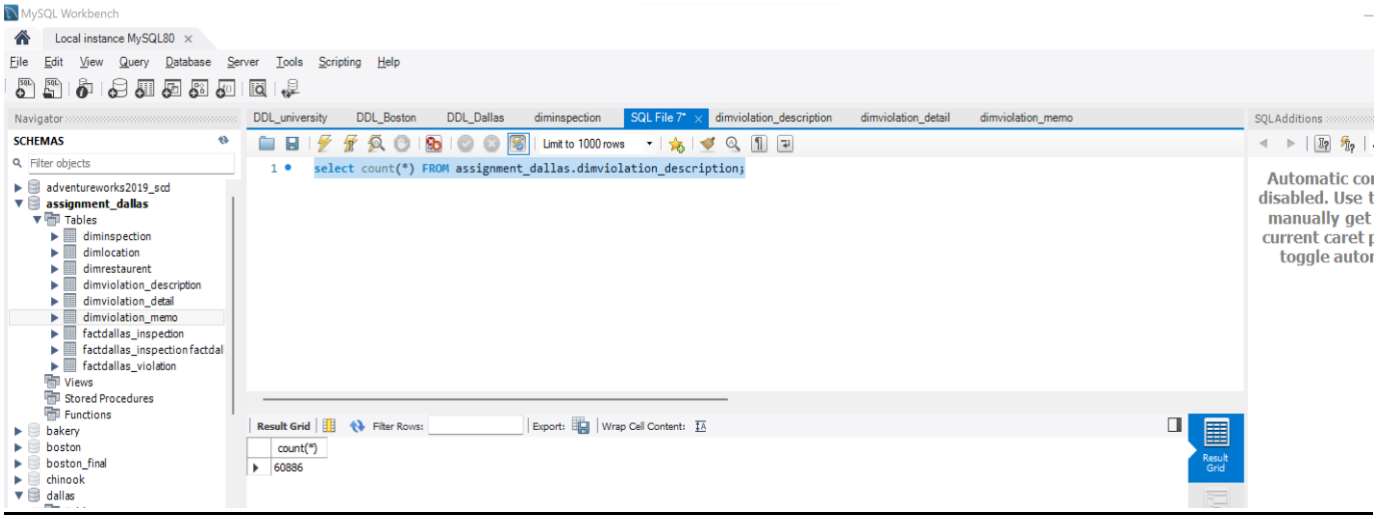
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
count(*)
60886
Result Grid


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
adventureworks2019_scd
assignment_dallas
Tables
diminspection
dimlocation
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Views
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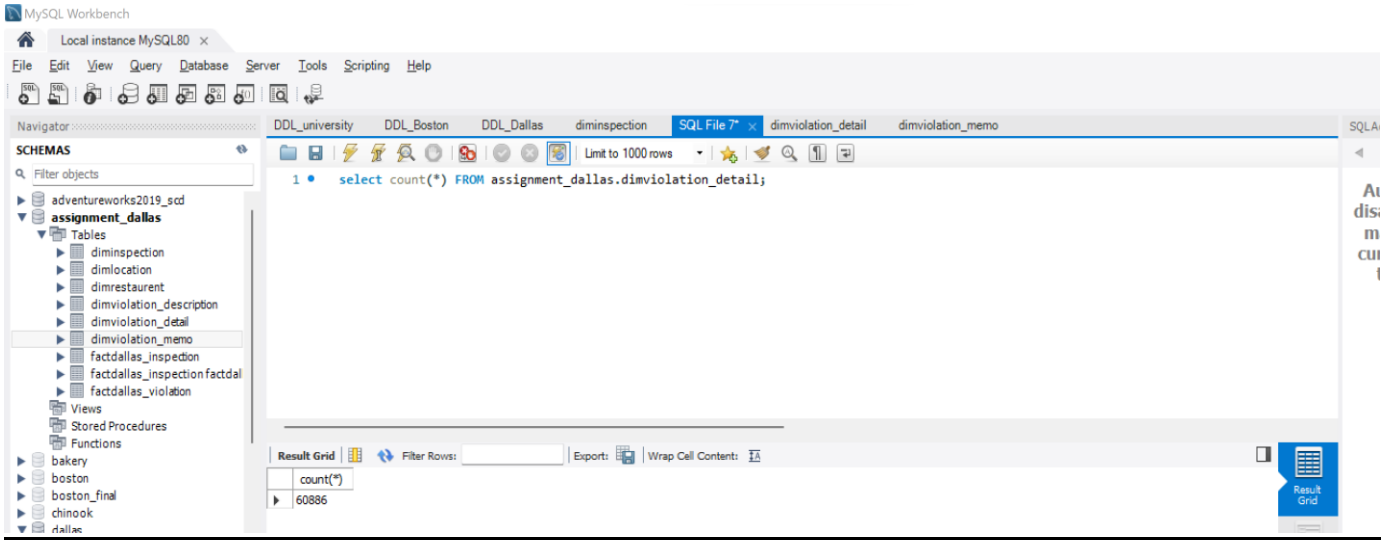
dallas
DDL_university
DDL_Boston
DDL_Dallas
diminspection
SQL File 7*
dimviolation_description
dimviolation_detail
dimviolation_memo
SQLAdditions
Limit to 1000 rows
1 • select count(*) FROM assignment_dallas.dimviolation_description;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
count(*)
60886
Result Grid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Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
adventureworks2019_scd
assignment_dallas
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diminspection
dimlocation
dimrestaurent
dimviolation_description
dimviolation_detail
dimviolation_memo
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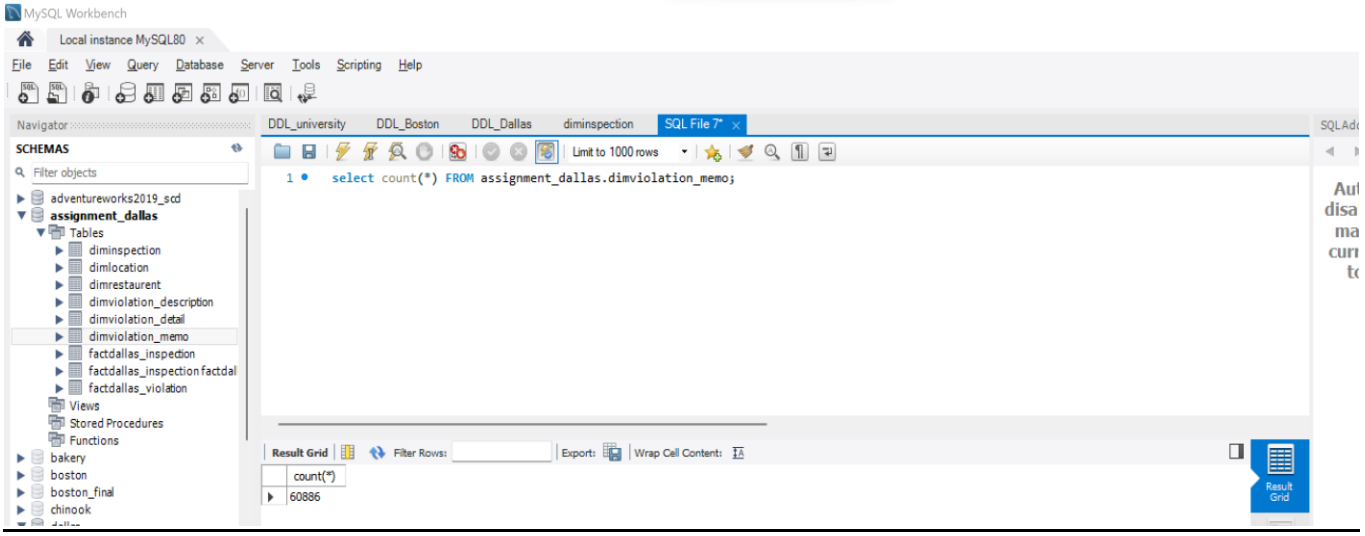
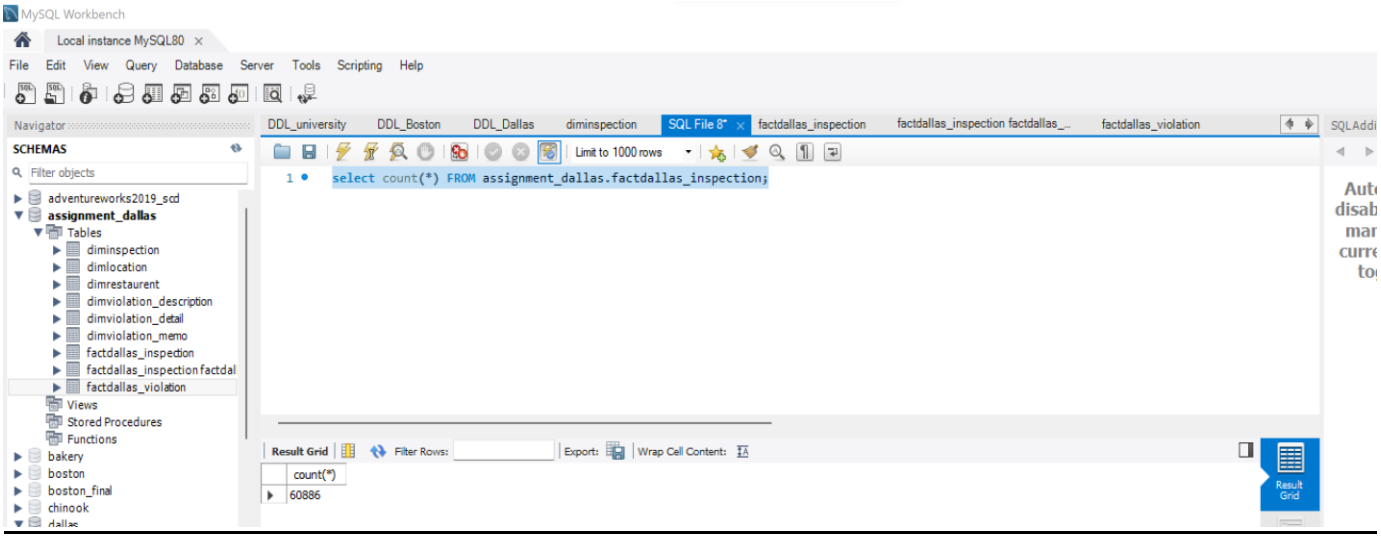
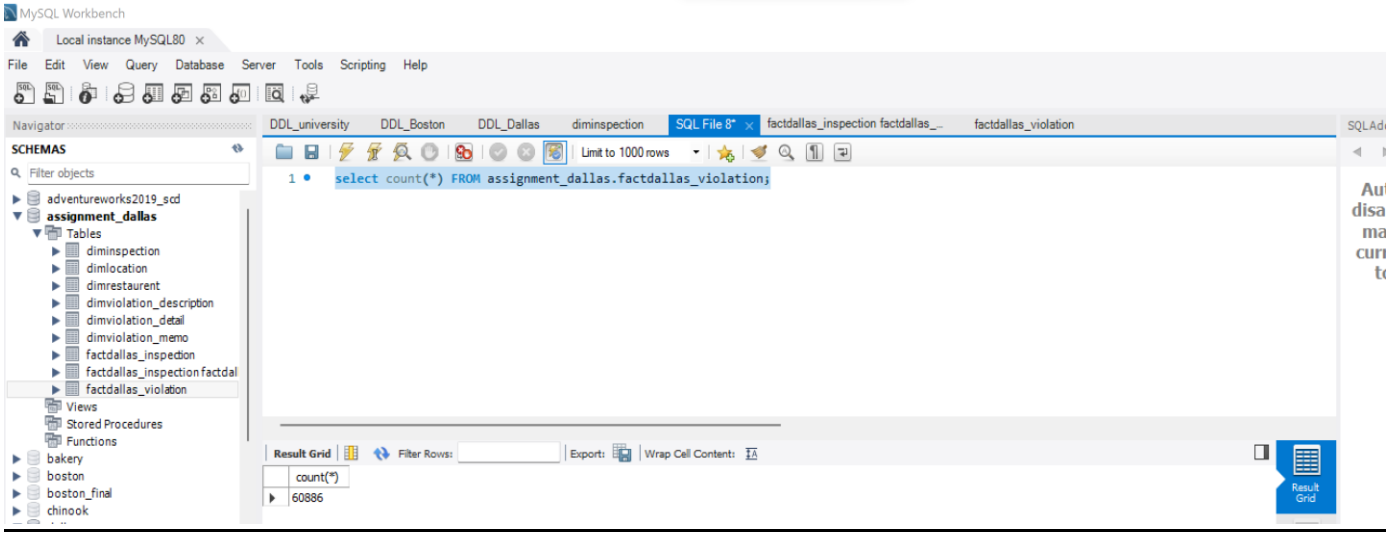
factdallas_inspection factdal
factdallas_violation
Views
Stored Procedures
Functions
bakery
boston
boston_final
chinook
dallas
DDL_university
DDL_Boston
DDL_Dallas
diminspection
SQL File 7*
dimviolation_detail
dimviolation_memo
Limit to 1000 rows
1 • select count(*) FROM assignment_dallas.dimviolation_detail;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
count(*)
60886
Result Grid


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
adventureworks2019_scd
assignment_dallas
Tables
diminspection
dimlocation
dimrestaurent
dimviolation_description
dimviolation_detail
dimviolation_memo
factdallas_inspection
factdallas_inspection factdal
factdallas_violation
Views
Stored Procedures
Functions
bakery
boston
boston_final
chinook
DDL_university DDL_Boston DDL_Dallas diminspection SQL File 7*
Limit to 1000 rows
1 select count(*) FROM assignment_dallas.dimviolation_memo;
Result Grid Filter Rows: Export: Wrap Cell Content:
count(*)
60886
Result Grid


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
adventureworks2019_scd
assignment_dallas
Tables
diminspection
dimlocation
dimrestaurent
dimviolation_description
dimviolation_detail
dimviolation_memo
factdallas_inspection
factdallas_inspection factdal
factdallas_violation
Views
Stored Procedures
Functions
bakery
boston
boston_final
chinook
DDL_university DDL_Boston DDL_Dallas diminspection SQL File 8* factdallas_inspection factdallas_inspection factdallas_... factdallas_violation
Limit to 1000 rows
1 select count(*) FROM assignment_dallas.factdallas_inspection;
Result Grid Filter Rows: Export: Wrap Cell Content:
count(*)
60886
Result Grid


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
adventureworks2019_scd
assignment_dallas
Tables
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dimlocation
dimrestaurent
dimviolation_description
dimviolation_detail
dimviolation_memo
factdallas_inspection
factdallas_inspection factdal
factdallas_violation
Views
Stored Procedures
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DDL_university DDL_Boston DDL_Dallas diminspection SQL File 8* factdallas_inspection factdallas_... factdallas_violation
Limit to 1000 rows
1 select count(*) FROM assignment_dallas.factdallas_violation;
Result Grid Filter Rows: Export: Wrap Cell Content:
count(*)
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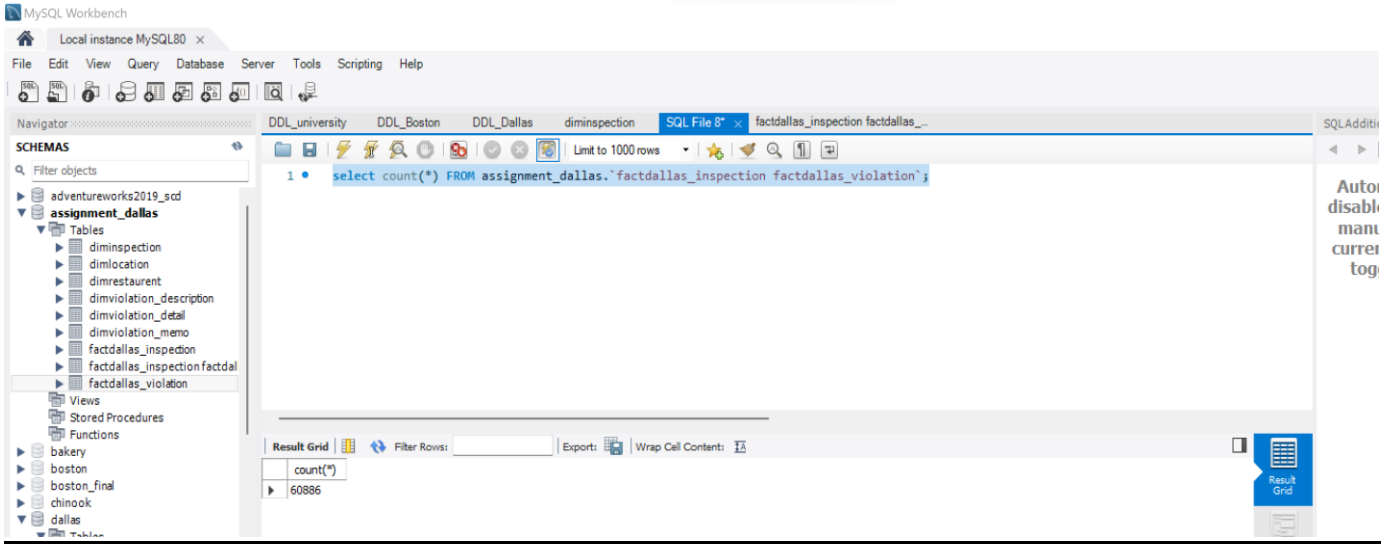
Result Grid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DDL_university
DDL_Boston
DDL_Dallas
diminspection
SQL File 8*
factdallas_inspection factdallas_...
Limit to 1000 rows
1
select count(*) FROM assignment_dallas.`factdallas_inspection factdallas_violation`;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
count(*)
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Result Grid