Group 1 Final Project Food Inspection

# Business Requirements

Query for BR1 – Inspection Results by Type

**SELECT**

Inspection\_Type,

Results,

**COUNT**(\*) **AS** *Total\_Inspections*

**FROM** FCT\_Inspection

**GROUP** **BY** Inspection\_Type, Results

**ORDER** **BY** *Total\_Inspections* **DESC**;

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Query for BR2 – Monthly/Weekly Inspection Trends

**SELECT**

*d*.Year,

*d*.Month,

*d*.Weekday,

**COUNT**(\*) **AS** *Total\_Inspections*

**FROM** FCT\_Inspection *f*

**JOIN** DIM\_Date *d* **ON** *f*.Date\_Key = *d*.Date\_Key

**GROUP** **BY** *d*.Year, *d*.Month, *d*.Weekday

**ORDER** **BY** *d*.Year, *d*.Month;

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Query for BR3 – Risk Level and Scores

**SELECT**

r.Risk\_Level,

**COUNT**(\*) **AS** Total\_Inspections,

**AVG**(r.Inspection\_Score) **AS** Avg\_Score

**FROM** FCT\_Inspection f

**JOIN** DIM\_Risk r **ON** f.Risk\_Key = r.Risk\_Key

**GROUP** **BY** r.Risk\_Level

**ORDER** **BY** Avg\_Score **ASC**;

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Query for BR4 – Top Violations

**SELECT**

*v*.Violation\_Description,

**COUNT**(\*) **AS** *Violation\_Count*

**FROM** FCT\_Inspection *f*

**JOIN** DIM\_Violation *v* **ON** *f*.Violation\_Key = *v*.Violation\_Key

**GROUP** **BY** *v*.Violation\_Description

**ORDER** **BY** *Violation\_Count* **DESC**

**LIMIT** 10;

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Query for BR5 – Repeat Offender Businesses

**SELECT**

*b*.DBA\_Name,

*b*.AKA\_Name,

*b*.License,

**COUNT**(\*) **AS** *Failed\_Inspections*

**FROM** FCT\_Inspection *f*

**JOIN** DIM\_Business *b* **ON** *f*.Business\_Key = *b*.Business\_Key

**WHERE** *f*.Results **IN** ('Fail', 'Out of Business')

**GROUP** **BY** *b*.DBA\_Name, *b*.AKA\_Name, *b*.License

**HAVING** **COUNT**(\*) > 1

**ORDER** **BY** *Failed\_Inspections* **DESC**;

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Query for BR6 – Facility Type Comparison

**SELECT**

*fac*.Facility\_Type,

**COUNT**(\*) **AS** *Total\_Inspections*,

**SUM**(**CASE** **WHEN** *f*.Results = 'Fail' **THEN** 1 **ELSE** 0 **END**) **AS** *Failures*

**FROM** FCT\_Inspection *f*

**JOIN** DIM\_Facility *fac* **ON** *f*.Facility\_Key = *fac*.Facility\_Key

**GROUP** **BY** *fac*.Facility\_Type

**ORDER** **BY** *Failures* **DESC**;

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Query for BR7 – Location-Based Insights

**SELECT**

*loc*.City,

*loc*.State,

*loc*.Zip\_Code,

**COUNT**(\*) **AS** *Total\_Inspections*

**FROM** FCT\_Inspection *f*

**JOIN** DIM\_Location *loc* **ON** *f*.Location\_Key = *loc*.Location\_Key

**GROUP** **BY** *loc*.City, *loc*.State, *loc*.Zip\_Code

**ORDER** **BY** *Total\_Inspections* **DESC**;

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