

Data Dictionary: Toronto Fire Incidents

Portfolio Analysis

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incidents_fact_table						
Central fact table for all main dimension tables						Fact table
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
fire_fk	varchar(15)					-
tfs_fk	varchar(15)					-
location_fk	varchar(15)					-
civilian_impact_fk	varchar(15)					-
sprinkler_systems_fk	varchar(15)					-
smoke_alarms_fk	varchar(15)					-
fire_alarms_fk	varchar(15)					-
damages_fk	varchar(15)					-

fire_details						
Details regarding the actual fire						Main Dimension Table
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
area_of_origin_fk	varchar(5)				null	-
level_of_origin	varchar(5)				null	Which floor level the fire originated on
exposure_fires	varchar(5)				null	Number of exposure fires associated with this fire
extent_of_fire_fk	varchar(5)				null	-
final_incident_type_fk	varchar(5)					-
ignition_source_fk	varchar(5)				null	-
material_first_ignited_fk	varchar(5)				null	-
possible_cause_fk	varchar(5)				null	-
smoke_spread_fk	varchar(5)				null	-

smoke_alarms						
Details about the smoke alarms at location of the fire					Main Dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
sa_fire_origin_fk	varchar(5)				null	-
sa_alarm_failure_fk	varchar(5)				null	-
sa_alarm_type_fk	varchar(5)				null	-
sa_impact_evacuation_fk	varchar(5)				null	-

fire_alarms						
Details about the fire alarms at location of the fire					Main Dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
impact_evacuation_fk	varchar(5)				null	-
fa_operation_fk	varchar(5)				null	-
fa_presence_fk	varchar(5)				null	-

sprinkler_systems						
Details about the sprinkler systems at location of the fire					Main Dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
sp_operation_fk	varchar(5)				null	-
sp_presence_fk	varchar(5)				null	-

civilian_impact						
Details about the civilian impact the fire had					Main Dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
casualties	int				0	Number of civilian casualties from fire
people_rescued	int				0	Number of civilians rescued from fire
est_people_displaced	int				0	Estimated number of civilians displaced by the fire

damages						
Damages caused by the fire					Main Dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
building_status_fk	varchar(5)				null	-
building_impact_fk	varchar(5)				null	-
est_dollar_loss	int				0	Estimated monetary loss from fire (in CAD dollars)

toronto_fire_services						
Details about the Toronto Fire Services response to the fire					Main Dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
agent_app_deferred	datetime					Time that a fire suppression agent was applied to the fire, or the time it was decided to defer the agent application.
initial_cad_event_fk	varchar(5)				null	-
method_fire_control_fk	varchar(5)				null	-
responding_apparatus	int				0	Number of fire service apparatus responded to the fire (i.e. fire trucks, etc.)
responding_personnel	int				0	Number of personnel that responded to the fire
tfs_arrival_time	datetime					Time that Toronto Fire Services arrived at the scene of the fire
fire_controlled_time	datetime					Time that the fire was under control
last_tfs_unit_clear_time	datetime					Time of departure for the last TFS personnel on scene
firefighter_casualties	int				0	Number of fire fighter casualties as a result of the fire

location						
Details about the location the fire took place at					Main Dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(15)					-
incident_station_area	int					TFS Station closest to the fire
incident_ward	int					City ward that the fire occurred in
intersection	varchar(500)					Nearest major/minor intersection to the fire
latitude	double					Latitude of fire location
longitutde	double					Longitude of fire location
property_use_fk	varchar(5)				null	-

fire_alarms_system_impact						
Details about the impact fire alarms had on the incident					Sub-dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
fasi_desc	varchar(500)					-

fire_alarms_system_operation						
Description of the operation of the fire alarms					Sub-dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
faso_desc	varchar(500)					-

final_incident_type						
Description of the final incident type recorded for the fire incident					Sub-dimension Table	
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
incident_type_desc	varchar(500)					-

fire_alarms_system_presence						
Description of the fire alarm presence at site of the fire incident						Sub-dimension Table
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
fasp_desc	varchar(500)					-

ignition_source						
Description of the fire incident's ignition source						Sub-dimension Table
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
ignition_desc	varchar(500)					-

initial_cad_event						
Description of the first Computer Aided Dispatch event type						Sub-dimension Table
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
cad_desc	varchar(500)					-

material_first_ignited						
Description of the material the fire ignited from						Sub-dimension Table
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
mfi_desc	varchar(500)					-

method_fire_control						
Description of the method the TFS used to control the fire						Sub-dimension Table
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
mfc_desc	varchar(500)					-

possible_cause						
Description of a fire incident's possible cause						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
pc_desc	varchar(500)					-

property_use						
Description of the what the property was used for prior to the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
property_use_desc	varchar(500)					-

smoke_alarm_at_fire_origin						
Description of the smoke alarms closest to the origin point of the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
sa_desc	varchar(500)					-

smoke_alarm_at_fire_origin_failure						
Description of any smoke alarm failures closest to origin point of the fire						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
sa_failure_desc	varchar(500)					-

smoke_alarm_at_fire_origin_alarm_type						
Description of the alarm issued by the smoke alarm closest to the origin point of the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
sa_type_desc	varchar(500)					-

smoke_alarm_impact_evacuation						
Description of the impact the smoke alarm had on civilian evacuation from the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
sa_imp_evac_desc	varchar(500)					-

smoke_spread						
Description the fire incident's smoke spread						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
smoke_spread_desc	varchar(500)					-

sprinkler_system_operation						
Description of the sprinkler system's operation during the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
spo_desc	varchar(500)					-

sprinkler_system_presence						
Description of the sprinkler system's presence at the fire incident's origin						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
spp_desc	varchar(500)					-

status_fire_on_arrival						
Description of the fire's status upon TFS's arrival on scene						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
sfa_desc	varchar(500)					-

area_of_origin						
Description of the area the fire incident originated in						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
aoo_desc	varchar(500)					-

building_status						
Description of the building's status following the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
building_status_desc	varchar(500)					-

business_impact						
Description of the fire incident's impact on a business following the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
building_impact_desc	varchar(500)					-

extent_of_fire						
Description of the extent of the fire incident						<i>Sub-dimension Table</i>
Column Name	Data Type	PK	FK	NN	Default	Comment
id	varchar(5)					-
building_impact_desc	varchar(500)					-