#### Table1

# USE sample;

create table SystemWatchIntegration Old( id auto int IDENTITY(1,1), AggreType varchar(18) NOT NULL, Id bigint NOT NULL, Site Id varchar(18) NOT NULL, Lead City varchar(50) NOT NULL, Lead City CustAffected bigint NULL, ResultDesc varchar(50) NULL, Nbr\_OMS\_Incidents bigint NULL, Cust Affected bigint NULL, OutageCount varchar(18) NULL, Event\_Start\_Dttm datetime NULL, Estimated\_Restore\_Dttm datetime NULL, OutageFirstReported varchar(4000) NULL, ETRReported datetime NULL, CorpComm Msg varchar(400) NULL, Notification Flag varchar(1) NULL, Last\_Sent\_Mail datetime NULL, Primary Key(AggreType,Id,Site Id,Lead City) );

### Table 2

#### USE sample;

create table SystemWatchIntegration\_New(id\_auto int IDENTITY(1,1),
AggreType varchar(18) NOT NULL,
Id bigint NOT NULL,
Site\_Id varchar(18) NOT NULL,
Lead\_City varchar(50) NOT NULL,
Lead\_City\_CustAffected bigint NULL,
ResultDesc varchar(50) NULL,
Nbr\_OMS\_Incidents bigint NULL,
Cust\_Affected bigint NULL,
OutageCount varchar(18) NULL,
Event\_Start\_Dttm datetime NULL,
OutageFirstReported varchar(4000) NULL,

ETRReported datetime NULL, CorpComm\_Msg varchar(400) NULL, Notification\_Flag varchar(1) NULL, Last\_Sent\_Mail datetime NULL, Primary Key(AggreType,Id,Site\_Id,Lead\_City));

# **INSERTING DATA INTO SystemWatchIntegration\_Old**

INSERT INTO SystemWatchIntegration\_Old (AggreType, Id, Site\_Id, Lead\_City, Lead\_City\_CustAffected, ResultDesc, Nbr\_OMS\_Incidents, Cust\_Affected, OutageCount, Event\_Start\_Dttm, Estimated\_Restore\_Dttm, OutageFirstReported, ETRReported, CorpComm\_Msg, Notification\_Flag, Last\_Sent\_Mail) VALUES

('Type1', 1001, 'Site001', 'City A', 100, 'Success', 2, 50, '10', '2024-06-27 10:00:00', '2024-06-27 12:00:00', 'Initial report of outage', '2024-06-27 11:30:00', 'Power failure reported at Site001.', 'N', '2024-06-27 13:00:00'),

('Type1', 1002, 'Site002', 'City B', 50, 'Partial', 1, 20, '5', '2024-06-27 09:00:00', '2024-06-27 11:30:00', 'Outage reported at Site002 due to equipment failure.', '2024-06-27 10:30:00', 'Technical issue identified as cause of power outage.', 'N', '2024-06-27 12:00:00'),

('Type2', 1003, 'Site003', 'City C', 200, 'Failure', 3, 150, '15', '2024-06-27 08:00:00', '2024-06-27 10:30:00', 'Major power failure affecting Site003.', '2024-06-27 09:45:00', 'Severe weather conditions causing outage.', 'N', '2024-06-27 11:00:00'),

('Type2', 1004, 'Site004', 'City D', 80, 'Partial', 2, 30, '8', '2024-06-27 07:30:00', '2024-06-27 10:00:00', 'Localized power outage at Site004.', '2024-06-27 09:00:00', 'Technical team investigating cause of outage.', 'N', '2024-06-27 10:30:00'),

('Type1', 1005, 'Site005', 'City E', 120, 'Success', 1, 100, '12', '2024-06-27 06:00:00', '2024-06-27 08:30:00', 'Power outage resolved at Site005.', '2024-06-27 08:00:00', 'Final report sent to affected customers.', 'N', '2024-06-27 09:00:00');

шпе	results in Messages													
	id_auto	AggreType	ld	Site_Id	Lead_City	Lead_City_CustAffected	ResultDesc	Nbr_OMS_Incidents	Cust_Affected	OutageCount	Event_Start_Dttm	Estimated_Restore_Dttm	OutageFirstReported	
1	1	Type1	1001	Site001	City A	100	Success	2	50	10	2024-06-27 10:00:00.000	2024-06-27 12:00:00.000	Initial report of outage	
2	2	Type1	1002	Site002	City B	50	Partial	1	20	5	2024-06-27 09:00:00.000	2024-06-27 11:30:00.000	Outage reported at Site002 due to equip	
3	3	Type2	1003	Site003	City C	200	Failure	3	150	15	2024-06-27 08:00:00.000	2024-06-27 10:30:00.000	Major power failure affecting Site003.	
4	4	Type2	1004	Site004	City D	80	Partial	2	30	8	2024-06-27 07:30:00.000	2024-06-27 10:00:00.000	Localized power outage at Site004.	
5	5	Type1	1005	Site005	City E	120	Success	1	100	12	2024-06-27 06:00:00.000	2024-06-27 08:30:00.000	Power outage resolved at Site005.	

OutageFirstReported	ETRReported	CorpComm_Msg	Notification_Flag	Last_Sent_Mail
Initial report of outage	2024-06-27 11:30:00.000	Power failure reported at Site001.	N	2024-06-27 13:00:00.000
Outage reported at Site002 due to equipment fail	2024-06-27 10:30:00.000	Technical issue identified as cause of power out	N	2024-06-27 12:00:00.000
Major power failure affecting Site003.	2024-06-27 09:45:00.000	Severe weather conditions causing outage.	N	2024-06-27 11:00:00.000
Localized power outage at Site004.	2024-06-27 09:00:00.000	Technical team investigating cause of outage.	N	2024-06-27 10:30:00.000
Power outage resolved at Site005.	2024-06-27 08:00:00.000	Final report sent to affected customers.	N	2024-06-27 09:00:00.000

# **INSERTING DATA SystemWatchIntegration\_New**

INSERT INTO SystemWatchIntegration\_New(AggreType, Id, Site\_Id, Lead\_City, Lead\_City\_CustAffected, ResultDesc, Nbr\_OMS\_Incidents, Cust\_Affected, OutageCount, Event\_Start\_Dttm, Estimated\_Restore\_Dttm, OutageFirstReported, ETRReported, CorpComm\_Msg, Notification\_Flag, Last\_Sent\_Mail) VALUES

('OutragesByIncident', 1, 'Site001', 'City A', 100, 'Success', 2, 250, '10', '2024-06-27 10:00:00', '2024-06-27 12:00:00', 'Initial report of outage.', '2024-06-27 11:30:00', 'Message regarding outage at City A.', 'N', '2024-06-27 13:00:00'),

('OutragesByAccident', 2, 'Site002', 'City B', 50, 'Partial', 1, 320, '5', '2024-06-27 09:00:00', '2024-06-27 11:30:00', 'Power issue reported in City B.', '2024-06-27 10:30:00', 'Technician dispatched for resolution.', 'N', '2024-06-27 12:00:00'),

('Type1', 1001, 'Site001', 'City A',100, 'Failure', 3, 75, '15', '2024-06-27 08:00:00', '2024-06-27 10:30:00', 'Major power failure affecting Site003.', '2024-06-27 09:45:00', 'Severe weather conditions causing outage.', 'N', '2024-06-27 11:00:00'),

('Type2', 1004, 'Site004', 'City D', 90,'Partial', 2, 430, '8', '2024-06-27 07:30:00', '2024-06-27 10:00:00', 'Localized power outage at Site004.', '2024-06-27 09:00:00', 'Technical team investigating cause of outage.', 'N', '2024-06-27 10:30:00'),

('OutragesByIncident', 3, 'Site003', 'City C', 200, 'Failure', 3,850, '15', '2024-06-27 08:00:00', '2024-06-27 10:30:00', 'Major outage in City C.', '2024-06-27 09:45:00', 'Critical outage response in progress.', 'N', '2024-06-27 11:00:00');

	id_auto	AggreType	ld	Site_Id	Lead_City	Lead_City_CustAffected	ResultDesc	Nbr_OMS_Incidents	Cust_Affected	OutageCount	Event_Start_Dttm
1	2	OutragesByAccident	2	Site002	City B	50	Partial	1	320	5	2024-06-27 09:00:00.000
2	1	OutragesByIncident	1	Site001	City A	100	Success	2	250	10	2024-06-27 10:00:00.000
3	5	OutragesByIncident	3	Site003	City C	200	Failure	3	850	15	2024-06-27 08:00:00.000
4	3	Type1	1001	Site001	City A	100	Failure	3	75	15	2024-06-27 08:00:00.000
5	4	Type2	1004	Site004	City D	90	Partial	2	430	8	2024-06-27 07:30:00.000

Estimated_Restore_Dttm	OutageFirstReported	ETRReported	CorpComm_Msg	Notification_Flag	Last_Sent_Mail
2024-06-27 11:30:00.000	Power issue reported in City B.	2024-06-27 10:30:00.000	Technician dispatched for resolution.	N	2024-06-27 12:00:00.000
2024-06-27 12:00:00.000	Initial report of outage.	2024-06-27 11:30:00.000	Message regarding outage at City A.	N	2024-06-27 13:00:00.000
2024-06-27 10:30:00.000	Major outage in City C.	2024-06-27 09:45:00.000	Critical outage response in progress.	N	2024-06-27 11:00:00.000
2024-06-27 10:30:00.000	Major power failure affecting Site003.	2024-06-27 09:45:00.000	Severe weather conditions causing outage.	N	2024-06-27 11:00:00.000
2024-06-27 10:00:00.000	Localized power outage at Site004.	2024-06-27 09:00:00.000	Technical team investigating cause of outage.	N	2024-06-27 10:30:00.000

### **FOR NEW OUTRAGES**

UPDATE n
SET Notification\_Flag = 'Y'
FROM SystemWatchIntegration\_New n
LEFT JOIN SystemWatchIntegration\_Old o
ON n.AggreType = o.AggreType
AND n.Id = o.Id
AND n.Site\_Id = o.Site\_Id
AND n.Lead\_City = o.Lead\_City
WHERE o.AggreType IS NULL
AND o.Id IS NULL
AND o.Site\_Id IS NULL
AND o.Lead\_City IS NULL
AND n.Cust\_Affected > 249
AND n.AggreType = 'OutragesByIncident'
AND n.CorpComm\_Msg IS NOT NULL;

## The NEW TABLE AFTER EXECUTING THE ABOVE QUERY

	id_auto	AggreType	ld	Site_Id	Lead_City	Lead_City_CustAffected	ResultDesc	Nbr_OMS_Incidents	Cust_Affected	OutageCount	Event_Start_Dttm
1	2	OutragesByAccident	2	Site002	City B	50	Partial	1	320	5	2024-06-27 09:00:00.000
2	1	OutragesByIncident	1	Site001	City A	100	Success	2	250	10	2024-06-27 10:00:00.000
3	5	OutragesByIncident	3	Site003	City C	200	Failure	3	850	15	2024-06-27 08:00:00.000
4	3	Type1	1001	Site001	City A	100	Failure	3	75	15	2024-06-27 08:00:00.000
5	4	Type2	1004	Site004	City D	90	Partial	2	430	8	2024-06-27 07:30:00.000

Estimated_Restore_Dttm	OutageFirstReported	ETRReported	CorpComm_Msg	Notification_Flag	Last_Sent_Mail
2024-06-27 11:30:00.000	Power issue reported in City B.	2024-06-27 10:30:00.000	Technician dispatched for resolution.	N	2024-06-27 12:00:00.000
2024-06-27 12:00:00.000	Initial report of outage.	2024-06-27 11:30:00.000	Message regarding outage at City A.	Υ	2024-06-27 13:00:00.000
2024-06-27 10:30:00.000	Major outage in City C.	2024-06-27 09:45:00.000	Critical outage response in progress.	Υ	2024-06-27 11:00:00.000
2024-06-27 10:30:00.000	Major power failure affecting Site003.	2024-06-27 09:45:00.000	Severe weather conditions causing outage.	N	2024-06-27 11:00:00.000
2024-06-27 10:00:00.000	Localized power outage at Site004.	2024-06-27 09:00:00.000	Technical team investigating cause of outage.	N	2024-06-27 10:30:00.000

### **FOR OLD OUTRAGES**

UPDATE n SET Notification\_Flag = 'Y' FROM SystemWatchIntegration\_New n LEFT JOIN SystemWatchIntegration\_Old o ON n.AggreType = o.AggreType AND n.Id = o.IdAND n.Site Id = o.Site Id AND n.Lead\_City = o.Lead\_City WHERE o.AggreType IS NOT NULL AND o.Id IS NOT NULL AND o.Site\_Id IS NOT NULL AND o.Lead\_City IS NOT NULL AND (n.Cust\_Affected=1.5\*o.Cust\_Affected OR n.ETRReported!=o.ETRReported OR DATEDIFF(HOUR,n.Last\_Sent\_Mail,GETDATE())>1);

## The NEW TABLE AFTER EXECUTING THE ABOVE QUERY

	id_auto	AggreType	ld	Site_Id	Lead_City	Lead_City_CustAffected	ResultDesc	Nbr_OMS_Incidents	Cust_Affected	OutageCount	Event_Start_Dttm
1	2	OutragesByAccident	2	Site002	City B	50	Partial	1	320	5	2024-06-27 09:00:00.000
2	1	OutragesByIncident	1	Site001	City A	100	Success	2	250	10	2024-06-27 10:00:00.000
3	5	OutragesByIncident	3	Site003	City C	200	Failure	3	850	15	2024-06-27 08:00:00.000
4	3	Type1	1001	Site001	City A	100	Failure	3	75	15	2024-06-27 08:00:00.000
5	4	Type2	1004	Site004	City D	90	Partial	2	430	8	2024-06-27 07:30:00.000

Estimated_Restore_Dttm	OutageFirstReported	ETRReported	CorpComm_Msg	Notification_Flag	Last_Sent_Mail
2024-06-27 11:30:00.000	Power issue reported in City B.	2024-06-27 10:30:00.000	Technician dispatched for resolution.	N	2024-06-27 12:00:00.000
2024-06-27 12:00:00.000	Initial report of outage.	2024-06-27 11:30:00.000	Message regarding outage at City A.	Y	2024-06-27 13:00:00.000
2024-06-27 10:30:00.000	Major outage in City C.	2024-06-27 09:45:00.000	Critical outage response in progress.	Y	2024-06-27 11:00:00.000
2024-06-27 10:30:00.000	Major power failure affecting Site003.	2024-06-27 09:45:00.000	Severe weather conditions causing outage.	Υ	2024-06-27 11:00:00.000
2024-06-27 10:00:00.000	Localized power outage at Site004.	2024-06-27 09:00:00.000	Technical team investigating cause of outage.	Υ	2024-06-27 10:30:00.000