ASSIGNMENT 4 SHUBHAM SHARMA EAS 503

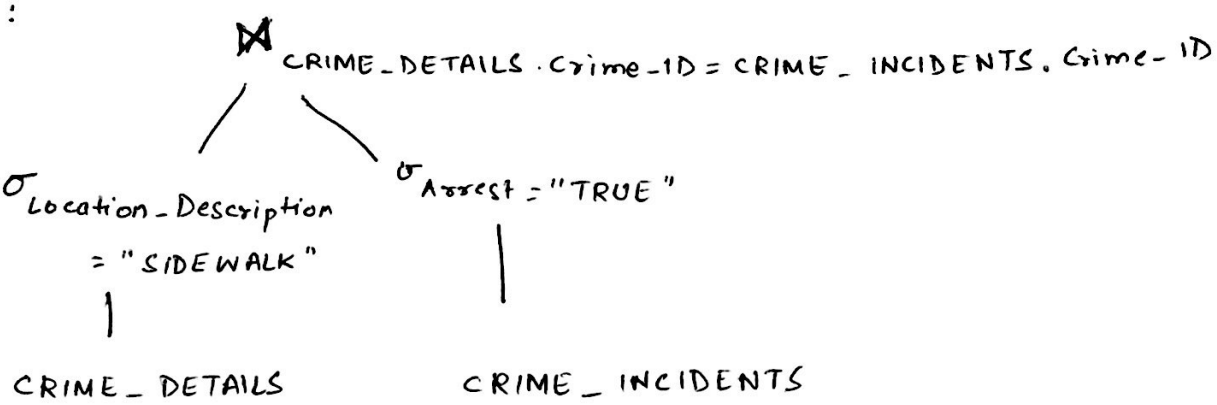
PERSON #: 50290293

EXPRESSION:

2. $\pi_{CRIME\_TYPES.Primary\_Type}\left(\sigma_{Location\_Description = "SIDEWALK"}(CRIME\_DETAILS) \bowtie_C \sigma_{Arrests = "TRUE"}(CRIME\_INCIDENTS) \bowtie CRIME\_TYPE\right)$

$[C = CRIME\_DETAILS.Crime\_ID = CRIME\_INCIDENTS.Crime\_ID]$

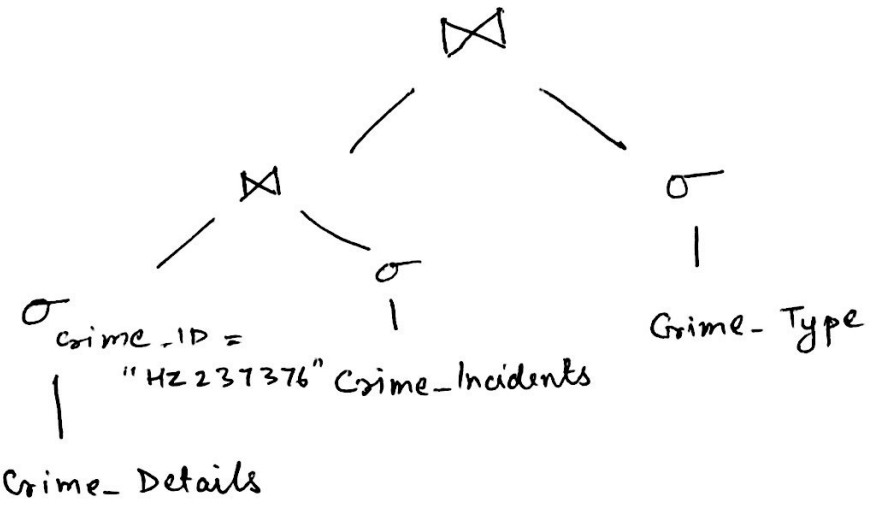
TREE:



4. Expression:

$\sigma_{Crime\_ID = "HZ237376"}\left((Crime\_Details) \bowtie \sigma(Crime\_Incidents)\right) \bowtie \sigma(Crime\_Type)$

Tree -



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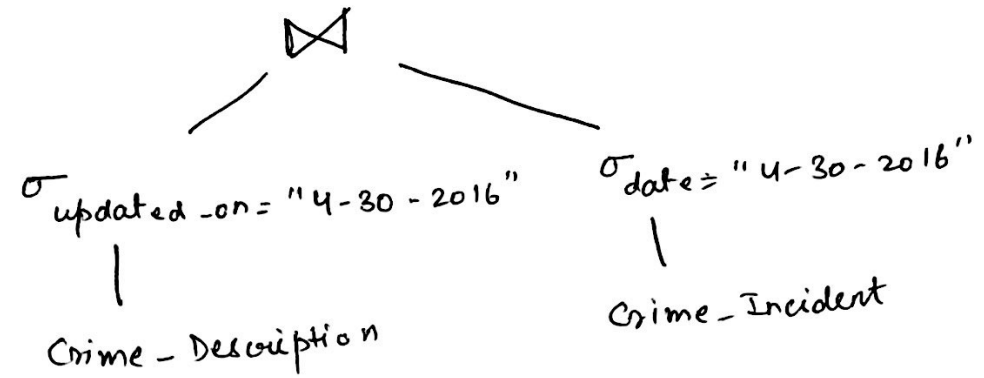
8. $\sigma_{updated\_on = "4-30-2016"}(Crime\_Description) \bowtie \sigma_{date = "4-30-2016"}(Crime\_Incidents)$

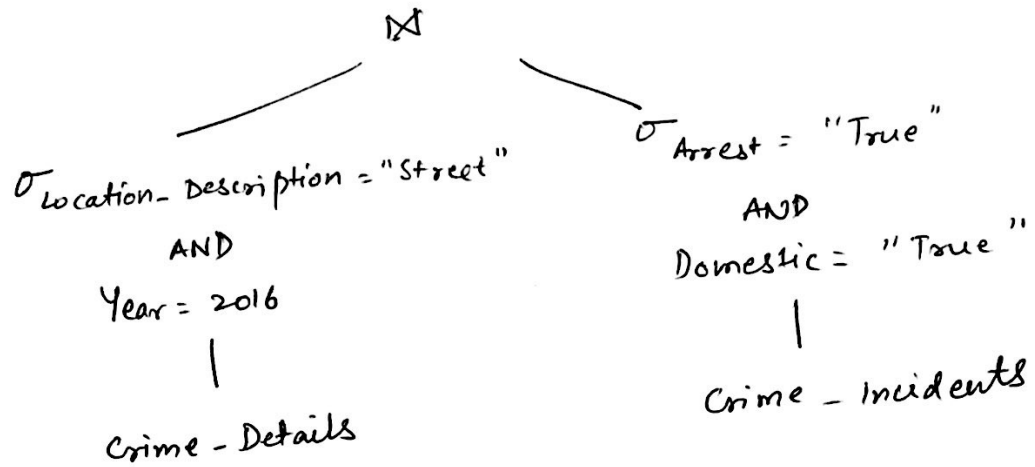
Tree:



9. Expression:

$\sigma_{Location\_Description = "Street" \text{ AND } Year = 2016}(Crime\_Details) \bowtie \sigma_{Arrest = "True" \text{ AND } Domestic = "True"}(Crime\_Incidents)$

Tree:



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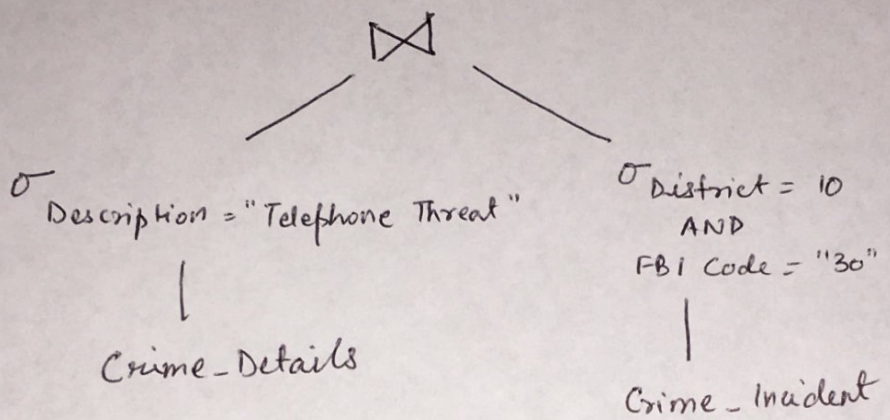
9.10 EXPRESSION:

$\sigma_{Description = "Telephone\ Threat"}(Crime\ Details) \bowtie \sigma_{District = 10\ AND\ FBI\_Code = '30'}(Crime\_Incident)$

TREE:



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