

DAX QUERY

FBI_Code_Share =

```
DIVIDE(  
    COUNTROWS(Crime_Data),  
    CALCULATE(COUNTROWS(Crime_Data), ALL(Crime_Data[FBI_Code]))  
)
```

Arrest_Rate =

```
DIVIDE(  
    CALCULATE(COUNTROWS(Crime_Data), Crime_Data[Arrest] = TRUE),  
    COUNTROWS(Crime_Data)  
)
```

Time_of_Day =

```
VAR HourValue = HOUR(Crime_Data[Time_OCC])  
RETURN  
    SWITCH(  
        TRUE(),  
        ISBLANK(Crime_Data[Time_OCC]), "Unknown",  
        HourValue >= 5 && HourValue < 12, "Morning",  
        HourValue >= 12 && HourValue < 17, "Afternoon",  
        HourValue >= 17 && HourValue < 21, "Evening",  
        HourValue >= 21 || HourValue < 5, "Night",  
        "Unknown"  
    )
```

City =

```
SWITCH(  
    TRUE(),  
    ISBLANK(Crime_Data[Zip_Code]), "Unknown",  
    Crime_Data[Zip_Code] >= 10001 && Crime_Data[Zip_Code] <= 11697, "New York",  
    Crime_Data[Zip_Code] >= 60601 && Crime_Data[Zip_Code] <= 60827, "Chicago",  
    Crime_Data[Zip_Code] >= 75201 && Crime_Data[Zip_Code] <= 75398, "Dallas",  
    Crime_Data[Zip_Code] >= 33010 && Crime_Data[Zip_Code] <= 33299, "Miami",  
    Crime_Data[Zip_Code] >= 90001 && Crime_Data[Zip_Code] <= 90089, "Los Angeles",  
    "Other"  
)
```

Age_Group =

```
SWITCH(  
    TRUE(),  
    Crime_Data[Vict_Age] <= 0, "Unknown",  
    Crime_Data[Vict_Age] <= 18, "0-17",  
    Crime_Data[Vict_Age] <= 25, "18-25",  
    Crime_Data[Vict_Age] <= 35, "26-35",  
    Crime_Data[Vict_Age] <= 50, "36-50",  
    Crime_Data[Vict_Age] <= 65, "51-65",  
    Crime_Data[Vict_Age] <= 75, "66-75",  
    Crime_Data[Vict_Age] <= 100, "75+",  
    "10_Invalid/Outlier"  
)
```

```
Crime_Description =  
SWITCH(  
    TRUE(),  
    Crime_Data[FBI_Code] = "09A", "Murder & Nonnegligent Manslaughter",  
    Crime_Data[FBI_Code] = "11A", "Forcible Rape",  
    Crime_Data[FBI_Code] = "120", "Robbery",  
    Crime_Data[FBI_Code] = "13A", "Aggravated Assault",  
    Crime_Data[FBI_Code] = "13B", "Simple Assault",  
    Crime_Data[FBI_Code] = "200", "Arson",  
    Crime_Data[FBI_Code] = "220", "Burglary / Breaking & Entering",  
    Crime_Data[FBI_Code] = "23H", "All Other Larceny",  
    Crime_Data[FBI_Code] = "240", "Motor Vehicle Theft",  
    Crime_Data[FBI_Code] = "26A", "False Pretenses / Swindle",  
    Crime_Data[FBI_Code] = "290", "Vandalism of Property",  
    Crime_Data[FBI_Code] = "35A", "Drug/Narcotic Violations",  
    Crime_Data[FBI_Code] = "520", "Weapon Law Violations",  
    Crime_Data[FBI_Code] = "90C", "Disorderly Conduct",  
    Crime_Data[FBI_Code] = "90J", "Trespassing",  
    "Unknown Crime Type"  
)
```
