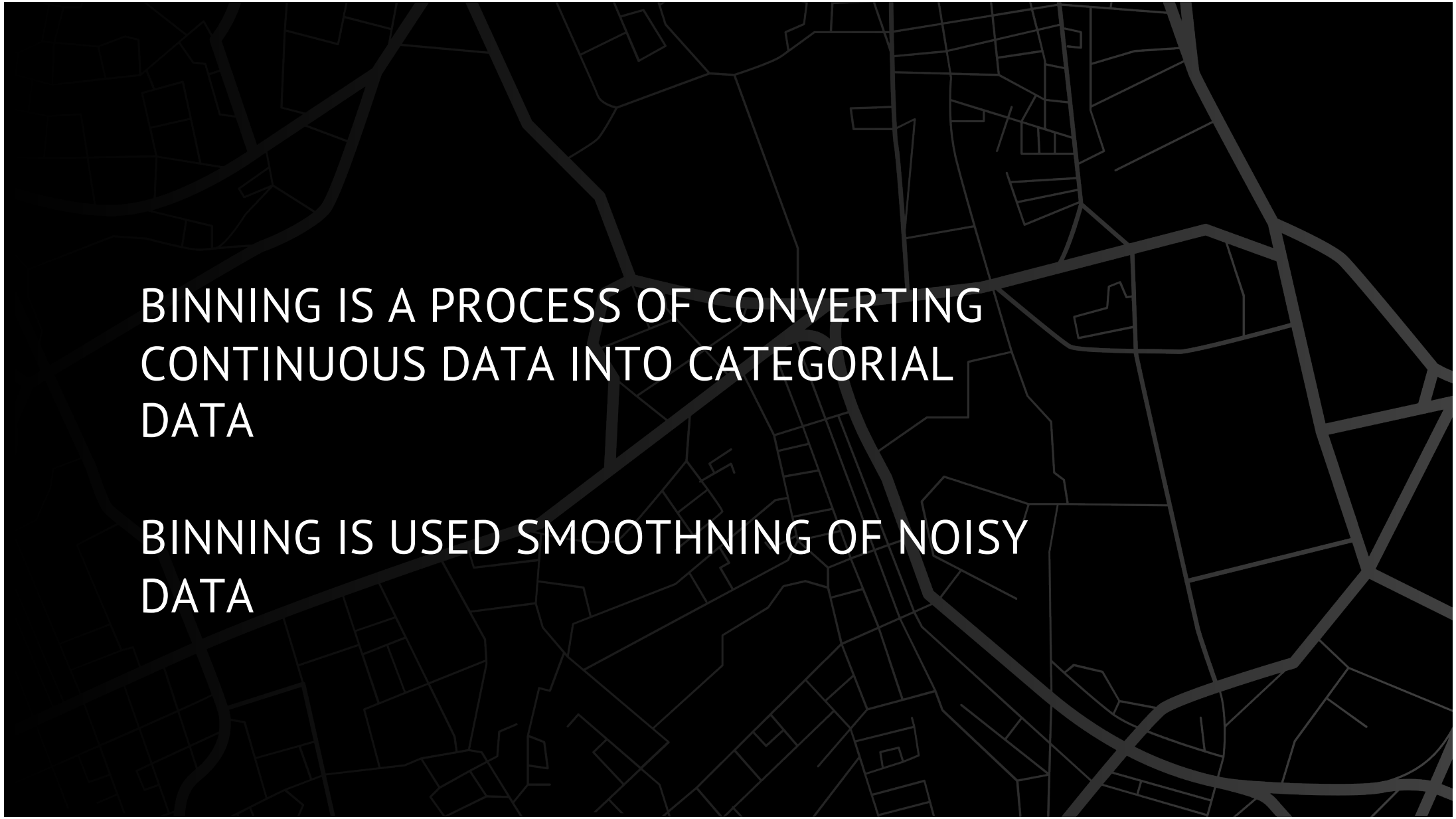

BINNING
Data Transformation & Data Discretization
From, 18CO63, 19DCO06 [GROUP NO. 15]

TABLE OF CONTENTS

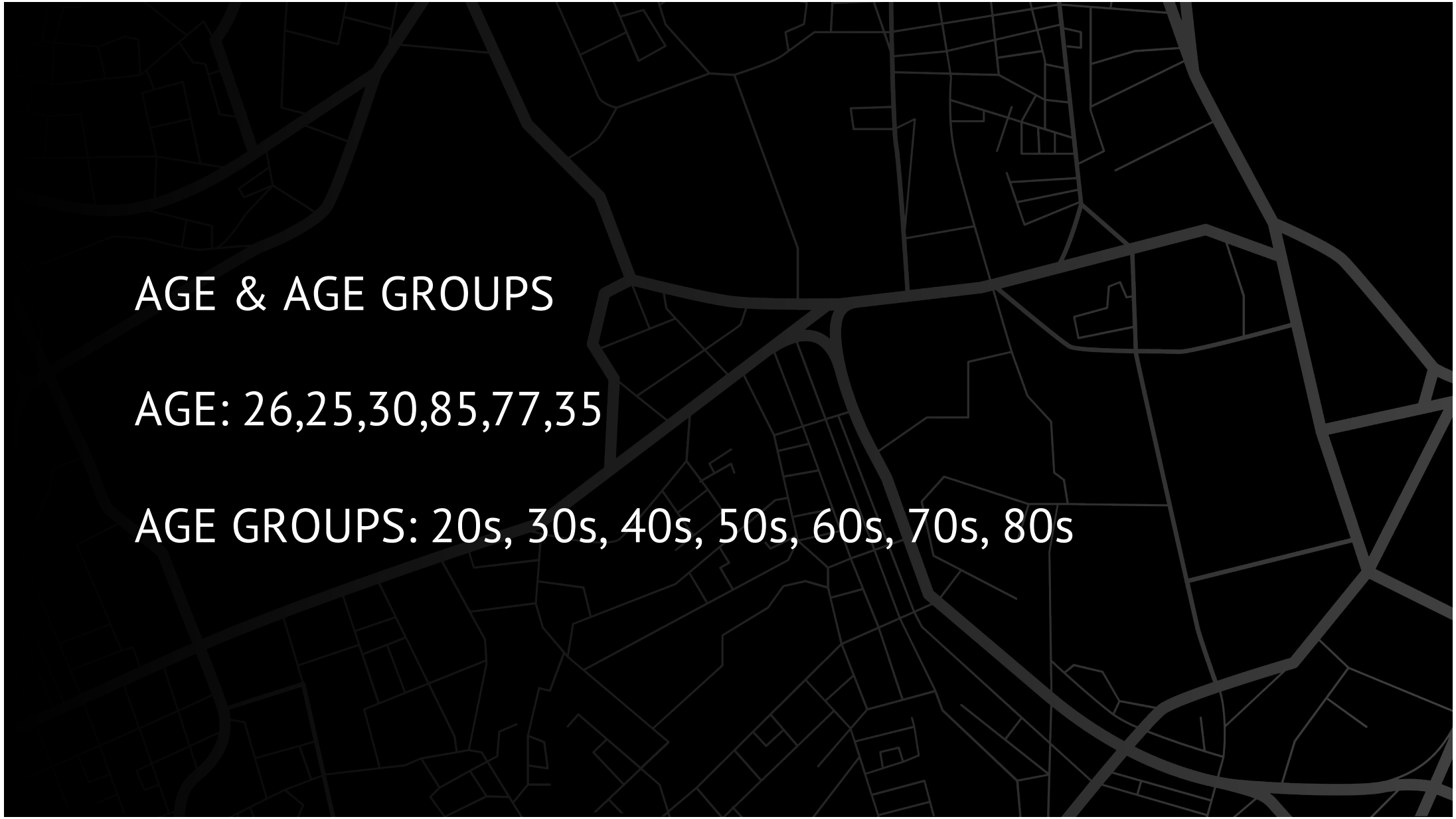

WHAT IS BINNING
01


BINNING IS A PROCESS OF CONVERTING CONTINUOUS DATA INTO CATEGORIAL DATA
BINNING IS USED SMOOTHNING OF NOISY DATA


WHAT IS BINS
02

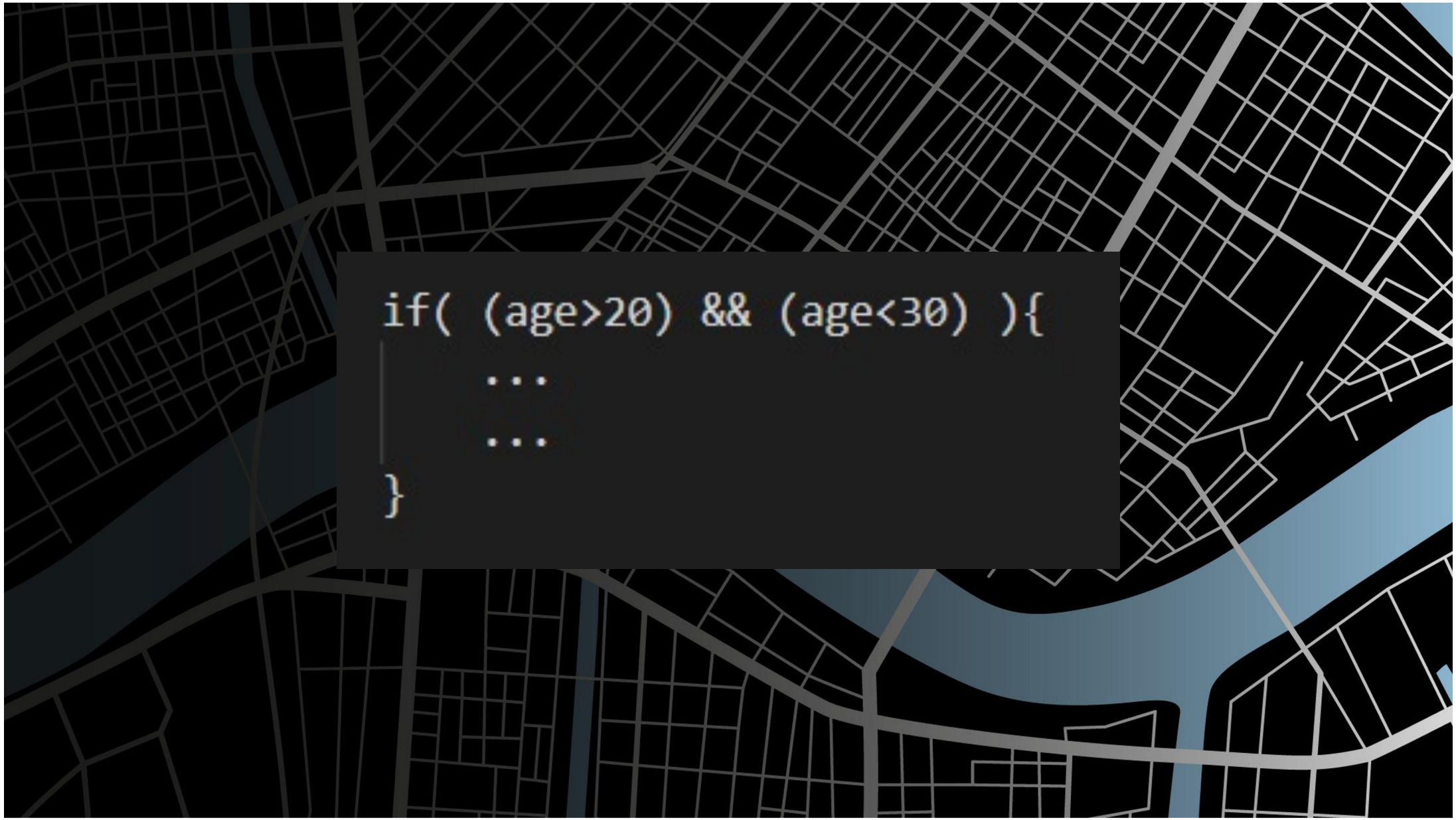
BINS ARE LOGICAL GROUPING OF DATA ACCORDING TO OUR PREDICTION AND PROVIDED DATA

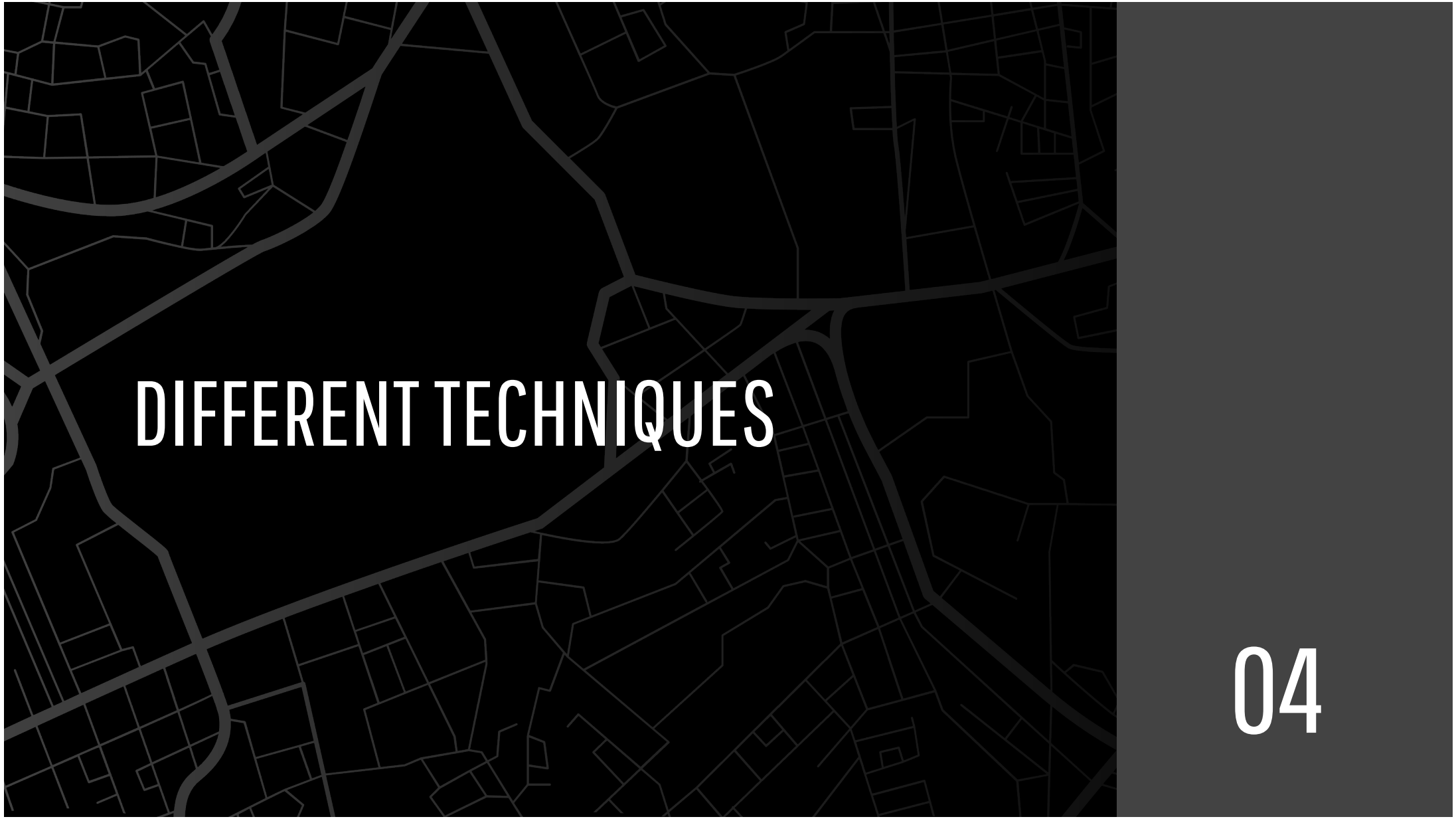

EXAMPLE
03


AGE & AGE GROUPS
AGE: 26,25,30,85,77,35
AGE GROUPS: 20s, 30s, 40s, 50s, 60s, 70s, 80s

PREDICTED DATA CATEGORIZATION

AGE	AGE GROUPS
26	20s
25	20s
30	30s
85	80s
77	70s
35	30s


if((age>20) && (age<30)){
...
...
}


DIFFERENT TECHNIQUES
04

DIFFERENT TECHNIQUES TO FORM A BIN

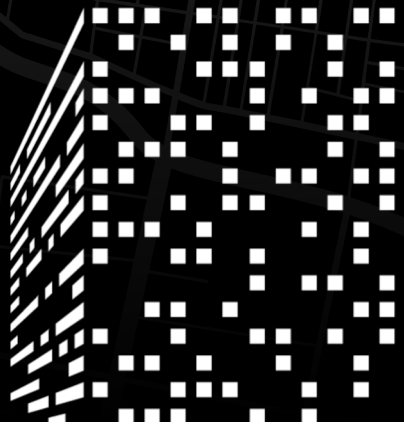
DATA: 4, 8, 15, 21, 21, 24, 25, 28, 34

EQUAL PARTITIONED BIN

BIN 1: 4, 8, 15
BIN 2: 21, 21, 24
BIN 3: 24, 28, 34

BIN MEAN

BIN 1: 9, 9, 9
BIN 2: 22, 22, 22
BIN 3: 29, 29, 29



BIN BOUNDRIES

BIN 1: 4, 4, 15
BIN 2: 21, 21, 24
BIN 3: 24, 25, 34

THANK YOU!

From, 18CO63, 19DCO06 [GROUP NO. 15]