

ASSIGNMENT 1



NAME - VANSH

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CENTENNIAL COLEGE

1. Produce a list of sentencing information to include criminal ID, full name, sentence ID, sentence start date, and the length in months of the sentence. The number of months should be shown as a whole number. That start date should be displayed in the format “January 1, 2023” [2 marks]

SELECT CR.Criminal\_id, CR.First ||' '|| CR.Last as Name, S.Sentence\_ID, S.Start\_date

FROM Sentences S

JOIN Criminals CR ON S.Criminal\_id = CR.Criminal\_id;

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2. List the name of each officer who has reported longer than the average number of crimes officers have reported [2 marks]

SELECT CO.OFFICER\_ID, O.LAST || ' ' || O.FIRST as Name

FROM CRIME\_OFFICERS CO

JOIN OFFICERS O ON CO.OFFICER\_ID =

O.OFFICER\_ID

GROUP BY CO.OFFICER\_ID, O.LAST, O.FIRST HAVING

COUNT(\*) > (SELECT COUNT(\*) / COUNT(DISTINCT OFFICER\_ID) FROM

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3. List the names of all criminals who have committed less than average number of crimes and aren’t listed as violent offenders [2 marks]

SELECT B.LAST||' '|| B.FIRST as Name, A.CRIMINAL\_ID, A.NO\_OF\_CRIME

FROM (SELECT CRIMINAL\_ID, COUNT(CRIME\_ID)

AS NO\_OF\_CRIME

FROM CRIMES GROUP BY CRIMINAL\_ID) A, CRIMINALS B

WHERE B.CRIMINAL\_ID=A.CRIMINAL\_ID

AND A.NO\_OF\_CRIME <

(SELECT AVG(NO\_OF\_CRIME)

FROM (SELECT CRIME\_ID,

COUNT(CHARGE\_ID) AS NO\_OF\_CRIME FROM CRIME\_CHARGES

GROUP BY CRIME\_ID))

AND B.V\_STATUS='N';

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4. List appeal information for each appeal that has longer than the average number of days between the filing and hearing dates [2 marks]

SELECT \* FROM appeals

Having AVG((filing\_date - hearing\_date))

=ALL(SELECT AVG((filing\_date - hearing\_date))

FROM appeals)

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5. List the names of probation officers who have had less than average number of criminals assigned [2 marks]

SELECT prob\_id, last, first, COUNT(DISTINCT(criminal\_id)) criminals

FROM prob\_officers

NATURAL JOIN sentences

HAVING COUNT(prob\_id) > (SELECT

AVG(COUNT(DISTINCT(criminal\_id)))

FROM sentences GROUP BY prob\_id)

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6. List each crime that has had the least number of appeals recorded [2 marks]

SELECT \*

FROM crimes

WHERE crime\_id

IN (SELECT crime\_id

FROM appeals

GROUP BY crime\_id

HAVING COUNT(crime\_id) <= (SELECT MAX(COUNT(crime\_id))

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7. List the following information for all crimes that have a period longer than 10 days between the data charged and the hearing date: crime ID, classification, date charged, hearing date, and the number of days between the date charged and the hearing date [2 marks]

SELECT crime\_id, classification, date\_charged, hearing\_date,

(hearing\_date - date\_charged) AS days\_between

FROM crimes

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