**Assignment 02**

***Place your code after each question***

The following list reflects common data requests from city managers. Write the SQL statements to satisfy the requests. If the query can be accomplished by using different operators, supply alternative solutions so that the performance-tuning group can test them and identify the more efficient statements. Test the statements and show execution results.

1. List all criminal aliases beginning with the letter B.

SELECT alias

FROM aliases

WHERE alias LIKE 'B%';

Graphical user interface, application

Description automatically generated

1. List all crimes that occurred (were charged) during the month October 2008. List the crime ID, criminal ID, date charged, and classification.

SELECT crime\_ID, criminal\_ID, date\_charged, classification

FROM crimes

WHERE date\_charged BETWEEN 'October 1, 2008' AND 'October 31, 2008';

Table

Description automatically generated

1. List all crimes with a status of CA (can appeal) or IA (in appeal). List the crime ID, criminal ID, date charged, and status.

SELECT crime\_ID, criminal\_ID, date\_charged, status

FROM crimes

WHERE status IN ('CA', 'IA');

Table

Description automatically generated with medium confidence

1. List all crimes classified as a felony. List the crime ID, criminal ID, date charged, and classification.

SELECT crime\_ID, criminal\_ID, date\_charged, classification

FROM crimes

WHERE classification = 'F';

Graphical user interface, application, table

Description automatically generated

1. List all crimes with a hearing date more than 14 days after the date charged. List the crime ID, criminal ID, date charged, and hearing date.

SELECT crime\_ID, criminal\_ID, date\_charged, hearing\_date

FROM crimes

WHERE DATEDIFF(DAY, date\_charged, hearing\_date) > 14;

Table

Description automatically generated

1. List all criminals with the zip code 23510. List the criminal ID, last name, and zip code. Sort the list by criminal ID.

SELECT criminal\_ID, last, zip

FROM criminals

WHERE zip = 23510

ORDER BY criminal\_ID;

Graphical user interface, application, table

Description automatically generated

1. List all crimes that don’t have a hearing date scheduled. List the crime ID, criminal ID, date charged, and hearing date.

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

FROM crimes

WHERE hearing\_date IS NULL;

Graphical user interface, application

Description automatically generated

1. List all sentences with a probation officer assigned. List the sentence ID, criminal ID, and probation officer ID. Sort the list by probation officer ID and then criminal ID.

SELECT sentence\_id, criminal\_id, prob\_id

FROM sentences

WHERE prob\_id IS NOT NULL

ORDER BY prob\_id, criminal\_id;

Table

Description automatically generated