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Student Id : C0930325 Program Code : CSD 2206

# **Assignment 5**

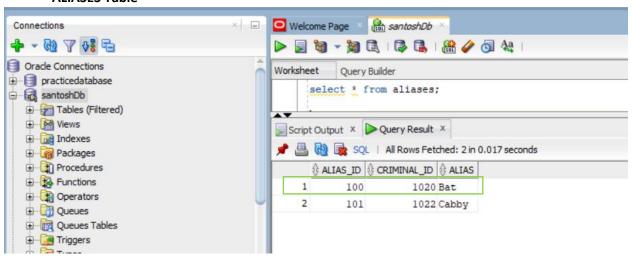
#### **Solution:**

1. Query to display all the criminal aliases beginning with letter B.

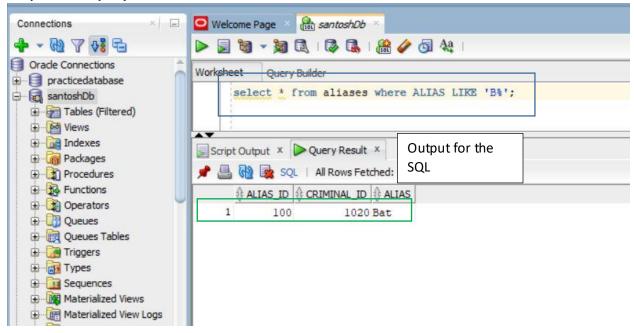
# **SQL** query:

❖ SELECT \* FROM aliases where ALIAS LIKE 'B%';

### **ALIASES Table**



# **Output of the query**

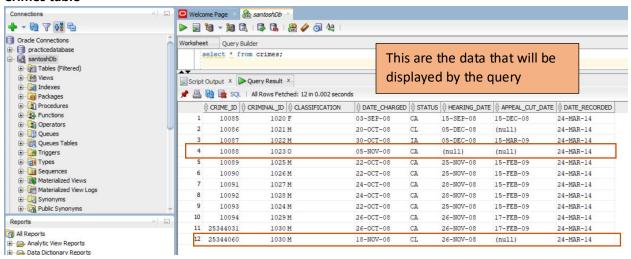


# 2. Query to list of all crimes that occurred in November 2008

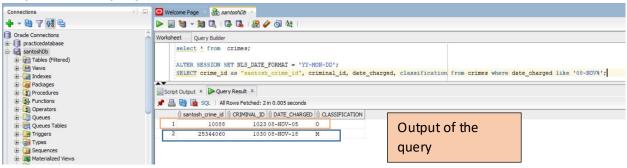
❖ Alter session for date is used to rearrange the date in the table.

### **SQL** query

- ALTER SESSION SET NLS\_DATE\_FORMAT = 'YY-MON-DD';
- SELECT crime\_id as "santosh\_crime\_id", criminal\_id, date\_charged, classification from crimes where date\_charged like '08-NOV%';



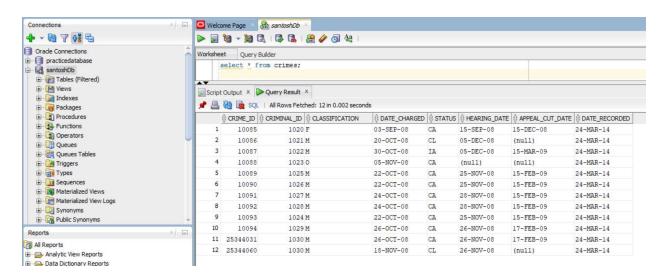
## Output after the query



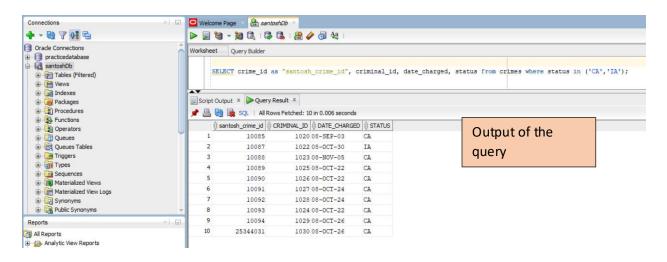
# 3. Query to list all criminal with the status CA or IA

### **SQL** query

SELECT crime\_id as "santosh\_crime\_id", criminal\_id, date\_charged, status from crimes where status in ('CA','IA');



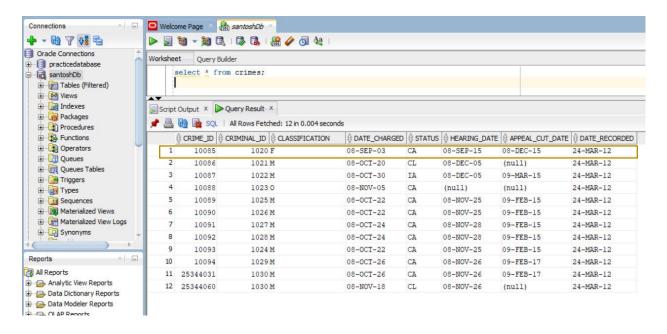
### Output after the query



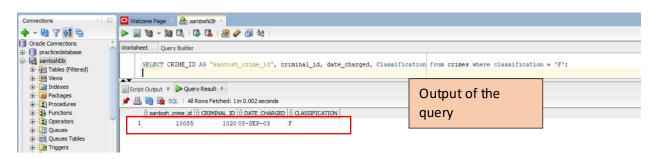
# 4. Query to list all criminal classified as felony

### **SQL** query

SELECT CRIME\_ID AS "Santosh\_crime\_id", criminal\_id, date\_charged, classification from crimes where classification = 'F';



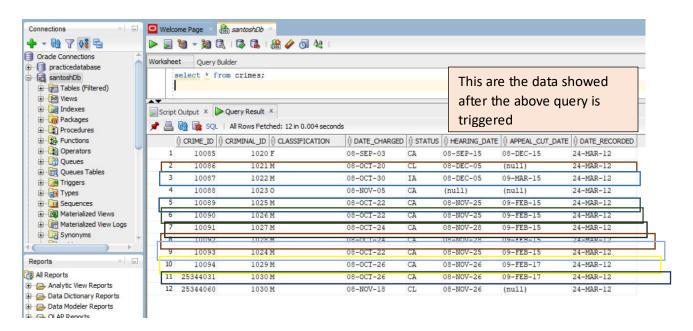
### Output after the query

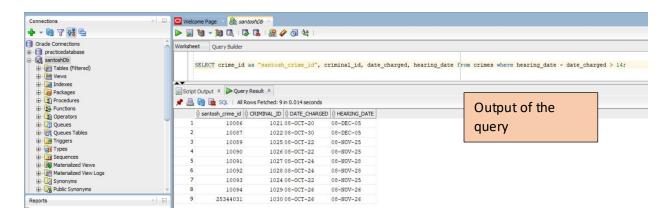


5. Query to list all crimes with the hearing date more than 14 days

# **SQL** query

SELECT CRIME\_ID AS "Santosh\_crime\_id", criminal\_id, date\_charged, hearing\_date from crimes where hearing\_date – date\_charged > 14;



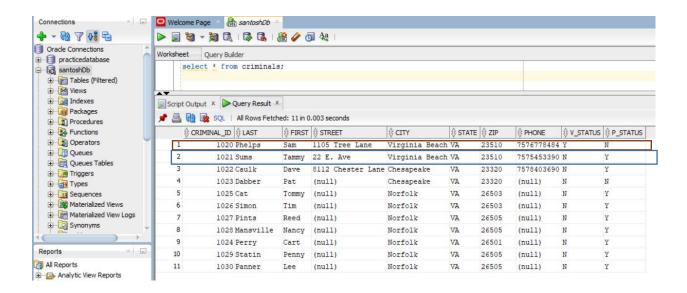


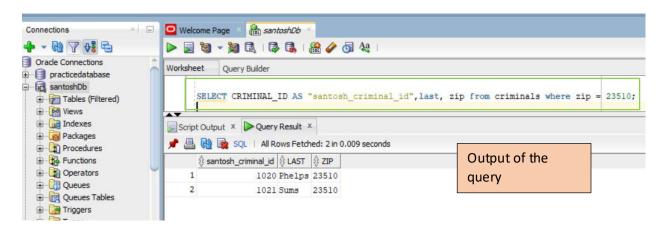
# 6. Query to list all criminals with the zip code 23510

# **SQL** query

SELECT CRIMINAL\_ID AS "Santosh\_criminal\_id", last, zip from criminals where zip = 23510;

### **Criminals table**



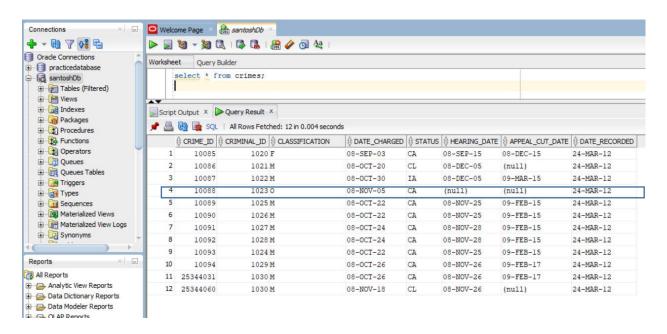


### 7. Query to list all crimes that don't have a hearing date scheduled

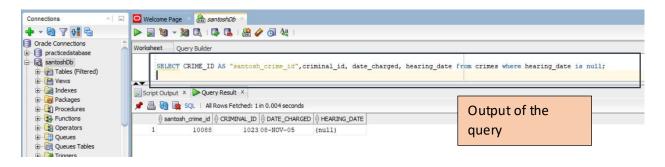
### **SQL** query

SELECT CRIME\_ID AS "santosh\_crime\_id", criminal\_id, date\_charged, hearing\_date from crimes where hearing\_date is null;

### **Crimes table**



### Output after the query

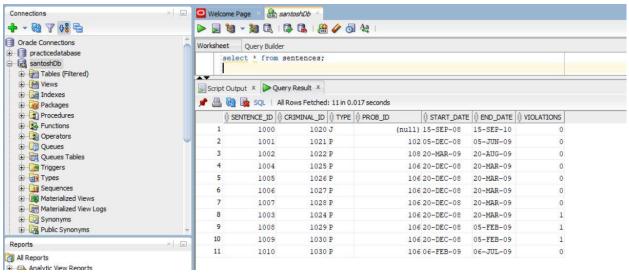


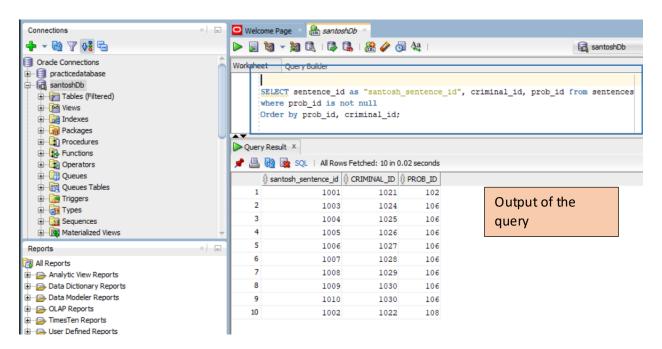
## 8. Query to list all sentences with a probation officer assigned

# **SQL** query

SELECT sentence\_id as "santosh\_sentence\_id", criminal\_id, prob\_id from sentences where prob\_id is not null Order by prob\_id, criminal\_id;

### Sentences table



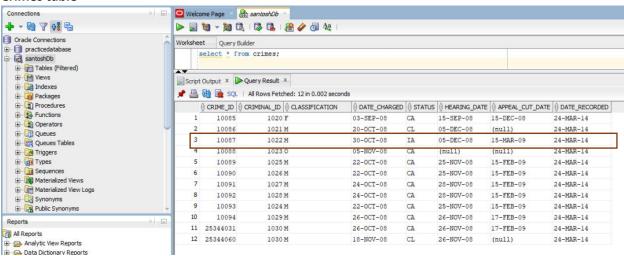


9. Query to list all crimes that are classified as misdemeanors (classification ='M') and are currently in appeal (stat is 'IA')

## **SQL** query

SELECT crime\_id as "Santosh\_crime\_id", criminal\_id., classification, status from crimes where classification = 'M' and status in ('IA')

#### **Crimes table**





- 10. Query to list all crime charges with a balance owed. List the charge ID, crime ID, fine amount, court fee, amount paid, and amount owed.
  - The COALESCE() function returns the first non-null value in a list.

### **SQL** query

SELECT charge\_id AS "santosh\_charge\_id", crime\_id, fine\_amount,court\_fee,amount\_paid, (fine\_amount + court\_fee -COALESCE(amount\_paid, 0)) AS "amount\_owned" FROM crime\_charges WHERE fine\_amount IS NOT NULL AND court\_fee IS NOT NULL and (fine\_amount + court\_fee -COALESCE(amount\_paid, 0)) > 0;

# **Crime Charge table**

