Cis 228

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Chap: 9

Program/Assignment: Joining data from multiple tables

Title: City Jail

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|  | /\*STEP 1 TRADITIONAL\*/  SELECT C.CRIMINAL\_ID, C.LAST, C.FIRST, CC.CRIME\_CODE, CC.FINE\_AMOUNT  FROM CRIMINALS C, CRIMES CR, CRIME\_CHARGES CC  WHERE CR.CRIME\_ID=CC.CRIME\_ID  AND C.CRIMINAL\_ID = CR.CRIMINAL\_ID; |
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|  | /\*STEP 1 JOIN METHOD \*/  SELECT CRIMINAL\_ID, LAST, FIRST, CRIME\_CODE, FINE\_AMOUNT  FROM CRIMINALS NATURAL JOIN CRIMES NATURAL JOIN CRIME\_CHARGES; |
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|  | /\*STEP 2 TRADITIONAL \*/  SELECT C.CRIMINAL\_ID, C.LAST, C.FIRST, CR.CLASSIFICATION, CR.DATE\_CHARGED, CR.CRIME\_ID, A.FILING\_DATE, A.STATUS  FROM CRIMINALS C, CRIMES CR, APPEALS A  WHERE C.CRIMINAL\_ID=CR.CRIMINAL\_ID  AND CR.CRIME\_ID=A.CRIME\_ID(+)  ORDER BY C.LAST; |
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|  | /\*STEP 2 JOIN \*/  SELECT CRIMINAL\_ID, LAST, FIRST,CLASSIFICATION, DATE\_CHARGED, CRIME\_ID, FILING\_DATE, A.STATUS  FROM CRIMINALS NATURAL JOIN CRIMES LEFT OUTER JOIN APPEALS A  USING(CRIME\_ID)  ORDER BY LAST; |
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|  | /\*STEP 3 TRADITIONAL \*/  SELECT C.CRIMINAL\_ID, C.LAST, C.FIRST, CR.CLASSIFICATION, CR.DATE\_CHARGED, CC.CRIME\_CODE, CC.FINE\_AMOUNT  FROM CRIMINALS C, CRIMES CR, CRIME\_CHARGES CC  WHERE CLASSIFICATION='O'  AND CR.CRIME\_ID=CC.CRIME\_ID  AND C.CRIMINAL\_ID = CR.CRIMINAL\_ID  ORDER BY CRIMINAL\_ID, DATE\_CHARGED; |
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|  | /\*STEP 3 JOIN \*/  SELECT CRIMINAL\_ID, LAST, FIRST, CLASSIFICATION, DATE\_CHARGED, CRIME\_CODE, FINE\_AMOUNT  FROM CRIMINALS NATURAL JOIN CRIMES NATURAL JOIN CRIME\_CHARGES  WHERE CLASSIFICATION='O'; |
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|  | /\*STEP 4 TRADITIONAL \*/  SELECT C.CRIMINAL\_ID, C.LAST, C.FIRST, C.V\_STATUS, C.P\_STATUS, AL.ALIAS  FROM CRIMINALS C, ALIASES AL  WHERE C.CRIMINAL\_ID=AL.CRIMINAL\_ID(+)  ORDER BY LAST; |
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|  | /\*STEP 4 JOIN \*/  SELECT CRIMINAL\_ID, LAST, FIRST, V\_STATUS, P\_STATUS, ALIAS  FROM CRIMINALS FULL OUTER JOIN ALIASES USING (CRIMINAL\_ID)  ORDER BY LAST; |
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|  | /\*STEP 5 TRADITIONAL \*/  SELECT C.LAST, C.FIRST, S.START\_DATE, S.END\_DATE, PR.CON\_FREQ  FROM CRIMINALS C, PROB\_CONTACT PR, SENTENCES S  WHERE C.CRIMINAL\_ID=S.CRIMINAL\_ID  AND S.TYPE='P'  AND (S.END\_DATE - S.START\_DATE) <= PR.HIGH\_AMT  AND (S.END\_DATE - S.START\_DATE) >= PR.LOW\_AMT  ORDER BY C.LAST, S.START\_DATE; |
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|  | /\*STEP 5 JOIN \*/  SELECT C.LAST, C.FIRST, S.START\_DATE, S.END\_DATE, PR.CON\_FREQ  FROM CRIMINALS C JOIN SENTENCES S ON S.TYPE='P' JOIN PROB\_CONTACT PR ON (S.END\_DATE - S.START\_DATE) <= PR.HIGH\_AMT  AND (S.END\_DATE - S.START\_DATE) >= PR.LOW\_AMT  ORDER BY C.LAST, S.START\_DATE; |
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|  | /\*STEP 6 TRADITIONAL \*/  SELECT PO.LAST, PO.FIRST, POM.LAST AS SUPERVISOR\_LAST, POM.FIRST AS SUPERVISOR\_FIRST  FROM PROB\_OFFICERS PO, PROB\_OFFICERS POM  WHERE PO.MGR\_ID=POM.PROB\_ID(+)  ORDER BY PO.LAST; |
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|  | /\*STEP 6 JOIN \*/  SELECT PO.LAST, PO.FIRST, POM.LAST AS SUPERVISOR\_LAST, POM.FIRST AS SUPERVISOR\_FIRST  FROM PROB\_OFFICERS PO LEFT OUTER JOIN PROB\_OFFICERS POM  ON PO.MGR\_ID=POM.PROB\_ID  ORDER BY PO.LAST; |
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