

A1-
SELECT K.kingName, K.dateCrowned, COUNT(*)
FROM King K, Kingdom KD, Heir H
WHERE KD.kingdomName = 'Kingdom of the Mountain and the Vale'
AND KD.kingdomId = K.kingdomId
AND (K.dateDied - K.dateCrowned) > 20
AND K.kingId = H.kingId
GROUP BY K.kingName, K.kingId
ORDER BY K.kingName ASC;

A2-
SELECT DISTINCT K.kingName , K.dateDied - K.dateCrowned
FROM King K, Kingdom KD, Alliance A
WHERE KD.kingdomName = 'Kingdom of the North'
AND KD.kingdomId = K.kingdomId
AND (K.kingId = A.kingId1 OR K.kingId = A.kingId2)
AND K.kingId NOT IN (SELECT K2.kingId
FROM King K2, Heir H
WHERE K2.kingId = H.kingId)
ORDER BY K.kingName DESC;

A3-
SELECT DISTINCT K1.kingName , K.kingName, A.duration
FROM King K , Alliance A , Kingdom KD, King K1
WHERE KD.kingdomName = 'Principality of Dorne'
AND K.kingdomId = KD.kingdomId
AND A.duration > 5
AND ((A.kingId1 = K.kingId AND K1.kingId = A.kingId2)
OR (A.kingId1 = K1.kingId AND A.kingId2 = K.kingId))
ORDER BY A.duration ASC;

A4-
SELECT K2.kingName
FROM King K2
WHERE K2.kingId IN (SELECT DISTINCT K1.kingId
FROM King K, King K1, Alliance A, Kingdom KD
WHERE KD.kingdomName = 'Principality of Dorne'
AND K.kingdomId = KD.kingdomId
AND ((K.kingId = A.kingId1 AND K1.kingId = A.kingId2)
OR (K.kingId = A.kingId2 AND K1.kingId = A.kingId1))
GROUP BY K1.kingId
HAVING COUNT (*) = (SELECT COUNT(*)
FROM King K3, Kingdom C
WHERE K3.kingdomId = C.kingdomId AND C.kingdomName = "Principality of Dorne"))
ORDER BY K2.kingName ASC;

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A5-
SELECT DISTINCT K.kingName, COUNT(*), AVG(H.diedAt - H.birthDate)
FROM King K , Heir H
WHERE H.ruled = 1 AND K.kingID = H.kingID
GROUP BY K.kingID
HAVING COUNT(*) = (SELECT MAX(HeirCounts.counts)
FROM ( SELECT COUNT(*) as counts
FROM Heir H, King K
WHERE H.ruled = 1 AND K.kingID = H.kingID
GROUP BY K.kingID)
as HeirCounts)
ORDER BY K.kingName ASC;

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A6-
SELECT DISTINCT K.kingName , K.dateCrowned , KD.kingdomName
FROM King K, Kingdom KD ,War W1
WHERE W1.winnerID = KD.kingdomID
AND K.kingdomID = KD.kingdomID
AND W1.dateOfWar BETWEEN K.dateCrowned AND K.dateDied
AND NOT EXISTS (SELECT W2.warID
FROM War W2
WHERE (KD.kingdomID = W2.kingdomID1 OR KD.kingdomID = W2.kingdomID2)
AND (W2.dateOfWar BETWEEN K.dateCrowned AND K.dateDied)
EXCEPT
SELECT W3.warID
FROM War W3
WHERE W3.winnerID = KD.kingdomID
AND (W3.dateOfWar BETWEEN K.dateCrowned AND K.dateDied))
ORDER BY K.kingName ASC;

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SELECT DISTINCT K.kingName, K.dateCrowned , KD.kingdomName
FROM King K, Kingdom KD , War W1
WHERE W1.winnerID = KD.kingdomID
AND K.kingdomID = KD.kingdomID
AND W1.dateOfWar BETWEEN K.dateCrowned AND K.dateDied
AND NOT EXISTS( SELECT K1.kingdomID
FROM War W , Kingdom K1
WHERE
K1.kingdomID <> KD.kingdomID
AND K.kingdomID = KD.kingdomID
AND (W.dateOfWar BETWEEN K.dateCrowned AND K.dateDied)
AND ((W.kingdomID1 = KD.kingdomID
AND W.winnerID = K1.kingdomID)
OR (W.kingdomID2 = KD.kingdomID
AND W.winnerID = K1.kingdomID )));
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