

Assignment 2: SQL – complicated queries

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1. `SELECT DISTINCT S.modelNo FROM Specializes AS S, TechnicalSupport AS T
WHERE S.empld = T.empld AND T.name = 'Tom';`
2. `SELECT T.empld, T.name
FROM TechnicalSupport as T, Locates as L, Model as M, Specializes as S
WHERE S.empld = T.empld AND S.modelNo = M.modelNo AND
S.modelNo = 'M01' AND T.siteCode = 111;`
3. `SELECT T.empld, T.name
FROM TechnicalSupport AS T, Specializes AS S, DigitaDisplay AS D, Model AS M
WHERE T.empld = S.empld AND S.modelNo = M.modelNo AND
M.modelNo = D.modelNo AND D.schedulerSystem = 'Random';`
4. `SELECT DISTINCT A.id,A.name,A.gender, S.id,S.name,S.gender, T.id,T.name,T.gender
FROM Administrator AS A, Salesmen AS S, TechnicalSupport AS T;`
5. `SELECT V.videoCode, V.videoLength
FROM Video AS V, Site AS S, Broadcasts AS B
WHERE V.videoCode = B.videoCode AND S.siteCode = B.siteCode AND
S.siteCode = 111 AND S.siteCode <> 112;`
6. `WITH countSites(siteCode) AS
(SELECT count(siteCode) FROM Administers AS A, Site AS S
WHERE A.empld = S.empld)
SELECT empld FROM Administrators,countSites AS C WHERE C.siteCode >= 10;`
7. `SELECT max(V.videoLength) FROM Site AS S, Video AS V, Broadcasts AS B
WHERE B.videoCode = V.videoCode AND B.siteCode = S.siteCode AND S.siteCode = 111;`
8. `SELECT V.videoCode, V.videoLength FROM Site AS S, Video AS V, Broadcasts AS B
WHERE B.videoCode = V.videoCode AND B.siteCode = S.siteCode AND S.siteCode = 112
AND V.videoLength = (SELECT max(V1.videoLength) FROM Video AS V1);`

9. WITH countSites(siteCode) AS

(SELECT count(siteCode) FROM Administers AS S, Site AS S

WHERE A.empId = S.empId)

SELECT A1.empId, A1.name, A1.gender FROM Administrators AS A1, countSites AS C
WHERE C.siteCode < 10;

10. SELECT DISTINCT P.commissionRate, S.empId, S.name

FROM Purchases AS P, Salesman AS S

WHERE P.empId = S.empId AND P.commissionRate > ALL (SELECT commissionRate
FROM Purchases);

11. WITH countSales(sales) AS

(SELECT count(*) FROM Purchases AS P, Salesman AS S

WHERE P.empId = S.empId)

SELECT S.empId, S.name

FROM Salesman AS S, countSales AS C1, countSales AS C2

WHERE C1.sales > ANY C2.sales;

12. SELECT DISTINCT T.empId, T.name, T.gender

FROM Specializes AS S, TechnicalSupport AS T

WHERE S.modelNo = SOME(SELECT modelNo

FROM Specializes AS S1, TechnicalSupport AS T1

WHERE T1.name = 'Tom');