

Assignment 1: Relational Model and SQL

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1. 8 Super Keys. {clientId}, {clientId, name}, {clientId, phone}, {clientId, address}, {clientId, name, phone}, {clientId, phone, address}, {clientId, name, address}, {clientId, name, phone, address}
2. 1 primary Key. Super keys: {clientId, empId, packageId}, {clientId, empId, packageId, commissionRate}
3. 1 candidate key: empId
4. SELECT * FROM Client WHERE name = 'Peter Smith';
5. SELECT videoCode FROM Video WHERE videoLength < 2;
6. SELECT siteCode, type, address, phone FROM Site WHERE address like '%University Dr';
7. SELECT E.empId, name, gender FROM Administers as E, Administrators WHERE siteCode = 111;
8. SELECT S.empId, C.clientId, name, phone FROM Purchases, Client as C, Salesman as S WHERE S.name = 'John';
9. SELECT serialNo FROM Site, DigitalDisplay WHERE siteCode = 112;
10. SELECT DISTINCT schedualrSystem FROM DigitalDisplay, Site WHERE siteCode = 112;
11. SELECT * FROM Model WHERE screenSize > 10 AND weight < 3;
12. SELECT DISTINCT serialNo, modelNo, schedualrSystem FROM DigitalDisplay, Site WHERE type = 'bar';
13. SELECT empId, day FROM AdmWorkHours WHERE hours > 8;