Supplier parts Database (questions in blue):

1. Get the suppliers with a status of 4 or more:  
   SELECT sno,sname FROM s WHERE status > 4;
2. Get the suppliers who are not in London and have a status > 10:  
   SELECT sno, sname FROM s WHERE (city != "London") AND (status > 10);
3. Get the quantity of green parts from Paris:  
   SELECT sum(qty) FROM sp WHERE pno IN (SELECT pno FROM p WHERE (color = "Green") AND (city = "Paris"));
4. Get the minimum qty of a part for S3:  
   SELECT min(qty) FROM sp WHERE sno = "S3";
5. Get the names of the parts for S1:  
   SELECT pname FROM p WHERE pno IN (SELECT pno FROM sp WHERE sno = "S1");

Northwind Database (make sure all of each statement is on the same line just for safety):

1. Show the name and birthdate of every employee in the British Isles:  
   SELECT FirstName, LastName, BirthDate FROM Employee WHERE Region = "British Isles";
2. Get the firstname of the employee with the last name “Peacock”:  
   SELECT FirstName FROM Employee WHERE LastName = "Peacock";
3. Get the job title and notes about Laura Callahan:  
   SELECT Title, Notes FROM Employee WHERE (FirstName = "Laura") AND (LastName = "Callahan");
4. Show the count of employees with the title of “Dr.”:  
   SELECT count(Id) FROM Employee WHERE TitleOfCourtesy = "Dr.";
5. Show the Sales Managers Title, First Name, and last name:  
   SELECT Title, FirstName, LastName FROM Employee WHERE Title = "Sales Manager";
6. Show the largest freight for an order handled by Andrew Fuller:  
   SELECT max(Freight) FROM "Order" WHERE EmployeeId IN(SELECT Id FROM Employee WHERE (FirstName = "Andrew") and (LastName = "Fuller"));
7. Show the products which contain “Chef” in the title and have at least 50 units in stock. Hint: use the ‘like’ operator (ie. where city like ‘%London%’, the % means anything comes before or after):   
   SELECT ProductName FROM Product WHERE UnitsInStock > 50 AND ProductName LIKE "%Chef%";
8. Show the names of everyone who are NOT sales representatives:  
   SELECT FirstName, LastName FROM Employee WHERE Title = "Sales Representative";
9. Display the names of everyone who reports to Andrew Fuller. (Hint: this is a recursive relationship… will talk more about it in a future class):  
   SELECT FirstName, LastName FROM Employee WHERE ReportsTo IN (SELECT Id FROM Employee WHERE (FirstName = "Andrew") AND (LastName = "Fuller"));  
   **Alternate Method:**

SELECT e.FirstName, e.LastName, d.Id as BossId, d.FirstName as BossFName, d.LastName as BossLName FROM Employee e, Employee d WHERE e.ReportsTo = d.Id and d.FirstName = "Andrew" and d.LastName = "Fuller";

1. Show the number of customers of Robert King:  
   SELECT \* FROM Supplier WHERE ContactName = "Robert King";

(For 10 I assumed that the since we are looking for customers of Robert King, we look through the contact name in the supplier)

AdventureWorks Data Warehouse

1. Compute the total cost of sick leave hours for employees that make less than $15 an hour:  
   SELECT sum(SickLeaveHours \* BaseRate) FROM DimEmployee WHERE BaseRate < 15;
2. Show the top 3 highest paid employees based on their base rate:

SELECT FirstName, LastName FROM DimEmployee ORDER BY BaseRate LIMIT 3;

1. Compute the average vacation amount paid to Female employees:  
   SELECT avg(BaseRate \* VacationHours) FROM DimEmployee WHERE Gender = "F";
2. Determine the number of former employees at AdventureWorks:  
   SELECT count(EndDate) FROM DimEmployee;
3. Show the average amount of tax on internet sales:  
   SELECT avg(TaxAmt) FROM FactInternetSales;
4. Determine the number of Vice Presidents:  
   SELECT FirstName, LastName, Title FROM DimEmployee WHERE Title LIKE "%Vice President%";

Chinook Database

1. Get the total sales by Country:  
   **Uncomment and run each line below one by one in the given order.**

--CREATE TABLE TotalSales (Country TEXT UNIQUE,Sales INTEGER);

--INSERT INTO TotalSales VALUES ("Brazil", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Brazil"));

--INSERT INTO TotalSales Values ("Norway", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Norway"));

--INSERT INTO TotalSales VALUES ("Belgium", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Belgium"));

--INSERT INTO TotalSales VALUES ("Canada", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Canada"));

--INSERT INTO TotalSales VALUES ("Czech Republic", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Czech Republic"));

--INSERT INTO TotalSales VALUES ("Austria", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Austria"));

--INSERT INTO TotalSales VALUES ("Denmark", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Denmark"));

--INSERT INTO TotalSales VALUES ("USA", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "USA"));

--INSERT INTO TotalSales VALUES ("Portugal", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Portugal"));

--INSERT INTO TotalSales VALUES ("France", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "France"));

--INSERT INTO TotalSales VALUES ("Hungary", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Hungary"));

--INSERT INTO TotalSales VALUES ("Ireland", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Ireland"));

--INSERT INTO TotalSales VALUES ("Italy", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Italy"));

--INSERT INTO TotalSales VALUES ("Netherlands", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Netherlands"));

--INSERT INTO TotalSales VALUES ("Poland", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Poland"));

--INSERT INTO TotalSales VALUES ("Spain", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Spain"));

--INSERT INTO TotalSales VALUES ("Sweden", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Sweden"));

--INSERT INTO TotalSales VALUES ("United Kingdom", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "United Kingdom"));

--INSERT INTO TotalSales VALUES ("Australia", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Australia"));

--INSERT INTO TotalSales VALUES ("Argentina", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Argentina"));

--INSERT INTO TotalSales VALUES ("Chile", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "Chile"));

--INSERT INTO TotalSales VALUES ("India", (SELECT sum("TOTAL") FROM Invoice WHERE BillingCountry = "India"));

--SELECT \* FROM TotalSales ORDER BY Sales DESC;

1. Get the Byte Count in Megabytes of all tracks. You can divide by 1000:  
   SELECT sum(Bytes/1000) AS Megabytes FROM Track;
2. Get the length, in seconds, of AC/DC tracks:  
   SELECT Name, (Milliseconds/1000) AS "Length(Seconds)" FROM Track WHERE AlbumId IN

(SELECT AlbumId FROM Album WHERE ArtistId IN (SELECT ArtistId FROM Artist WHERE Name = "AC/DC"));

1. Get the total dollar amount of sales from British Columbia, Canada:  
   SELECT sum("Total") AS "Total Sales Revenue in Canada, BC" FROM Invoice WHERE (BillingState = "BC") AND (BillingCountry = "Canada");