# http://aynieducation.org/wp-content/uploads/2013/07/UW-logo.jpg http://www.orangegoesgreen.org/wp-content/uploads/2012/10/University-of-Washington-logo1.gif

Black Coffee Questions

HINT: Parameters will be of associated ‘Name’ columns as opposed to ‘ID’ columns. Also, use variables as needed ‘to leverage what we know to find what we don’t know’.

Questions 1 through 10 reference UNIVERSITY ERD (page 2)

1. **Create a stored procedure to hire a new person to an existing staff position.**
2. **Create a stored procedure to create a new class of an existing course.**
3. **Create a stored procedure to register an existing student to an existing class.**
4. **Create the check constraint to restrict the type of instructor assigned to 400-level courses in Biology or Philosophy courses during summer quarters to Assistant or Associate Professor.**
5. **Create the check constraint to restrict students assigned to dorm-rooms on West Campus to be at least 20 years old.**
6. **Write the code to determine the oldest person registered for MATH389 Spring quarter 2016.**
7. **Write the code to determine the total number of dorm rooms that are of type ‘triple’ for McMahon Hall.**
8. **How many Administrative staff people were hired in the Medical School between February 12, 2009 and March 28, 2013?**
9. **Which is the newest building on lower campus that has had a Geology class instructed by Greg Hay before winter 2015.**
10. **Which instructor has had the *same* office in Padelford Hall the longest?**

Questions 11 through 20 reference MetroTransit ERD (page 3)

1. **Create the following 3 stored procedures:**
   1. **GetEmployeeID (pass in @Fname, @Lname, @EmpTypeName, @EmpDOB; Pass out @EmpID)**
   2. **GetVehicleID (pass in @VehicleSerialNum; pass out @VehicleID)**
   3. **CreateTrip (pass in all required parameters to leverage GetEmployeeID and GetVehicleID and INSERT a new row in TRIP entity.**
2. **Write the code with a CHECK constraint to restrict values entered in the database that an employee may not be assigned more than 4 trips in any single day.**
3. **Write the code to create a computed column on POSITION that keeps track of the number of current employees that hold each specific position title.**
4. **Write the code to create a computed column on EMPLOYEE\_POSITION that keeps track of the number of years that each specific employee has been employed at their current position to the tenths of a year.**
5. **Write the query to return the list of routes that have at least three stops between 12:30 PM and 5:15 PM in the neighborhood of Fremont.**
6. **Write the query to return the list of students who had at least 25 boardings on route '72 Express' in November 2015.**
7. **Write the query to return the three most-common/frequent maintenance tasks on 'Double Decker' busses more than 6 years old.**
8. **Write the query to return the number of trips made to the Destination of 'Space Needle' that had the amenity of 'Air Conditioning' from March 9, 2013 through October 3, 2014.**
9. **Write the query to return the percentage of 'Commuter Vans' were never reported as 'Canceled' in June of 2016?**
10. **Write the query to return the list of routes with more than 2800 boardings in the University District neighborhood in the last 30 days.**

Database: **UNIVERSITY**



Database: **METRO\_TRANSIT**

