CSC343 PCRS

Prep 3:

Q2:\project_{name} department;

Q3:\project_{name, eid} \select_{salary > '55'} employee;

Q4:\project_{name, eid}(employee \natural_join(\project_{eid} sales));

Q5:\project_{name,salary}(\select_{eid=manager} (manages \product employee));

Q7:\project_{employee.name,eid,salary}(\select_{department.name='Widgets'}(employee \theta_join_{employee.dept=department.did}department));

Q8:\project_{name,eid}(\select_{manager=eid} ((\project_{manager}
\select_{junior=eid} ((\select_{amount>50} sales)\product manages))
\product employee));

Q9:\project_{employee.eid}(\select_{amount>'90' and amount<'100'}(employee
\theta_join_{employee.eid=sales.eid}   sales));

Prep 4:

Canada Code: SELECT code from country where name='Canada';

French Countries: select countrycode from countrylanguage
where countrylanguage='French' and isofficial=True;

German country name: select countrycode from countrylanguage
where countrylanguage='French' and isofficial=True;

European Populations: select name,population from country where continent='Europe'
order by population desc;

Bilingual: select a1.countrycode as bilingualcode
from countrylanguage a1,countrylanguage a2
Where (a1.countrycode=a2.countrycode and
not a1.countrylanguage=a2.countrylanguage);

Prep 5:

Double Manager: SELECT M1.manager as manager

```
                    FROM manages as M1, manages as M2
                   Where M1.manager = M2.manager and M1.junior != M2.junior;
```

Rich sales:

```
    SELECT M1.manager as manager
     FROM manages as M1, manages as M2
       Where M1.manager = M2.manager and M1.junior != M2.junior;
```

Department Salary:

```
SELECT employee.name As name, department.name AS department, salary
FROM employee INNER JOIN department
ON employee.dept = department.did;
```

Prep 6:

Multilingual:

```
Select countrycode as code, count(countrylanguage) As numlanguages
From countrylanguage
Group by countrylanguage.countrycode
Having count(countrylanguage) > (Select count(countrylanguage) From
          countrylanguage Where countrycode='MEX');
```

English On Top:

```
select distinct name as country
from country natural join countrylanguage
where code=countrycode and countrylanguage='English' and
percentage >= all (select percentage
from countrylanguage
where code=countrycode and countrylanguage != 'English');
```

Uncommon Language:

```
select distinct name
from country,countrylanguage
where countrycode=code and percentage<1 and continent='Africa';
```

No MC answers here. Just try.