	SQL Code	Result Table

Q1	SELECT
	   StdFirstName, StdLastName, StdCity, StdGPA
	FROM
	   student
	WHERE
	   StdGPA >= 3.2;
		<table><tr><th>StdFirstName</th><th>StdLastName</th><th>StdCity</th><th>StdGPA</th></tr><tr><td>CANDY</td><td>KENDALL</td><td>TACOMA</td><td>3.5</td></tr><tr><td>JOE</td><td>ESTRADA</td><td>SEATTLE</td><td>3.2</td></tr><tr><td>MARIAH</td><td>DODGE</td><td>SEATTLE</td><td>3.6</td></tr><tr><td>TESS</td><td>DODGE</td><td>REDMOND</td><td>3.3</td></tr><tr><td>CRISTOPHER</td><td>COLAN</td><td>SEATTLE</td><td>4</td></tr><tr><td>WILLIAM</td><td>PILGRIM</td><td>BOTHELL</td><td>3.8</td></tr></table>

Q2	SELECT
	   FacFirstName,
	   FacLastName,
	   FacCity,
	   FacSalary*1.2 AS InflatedSalary,
	   FacHireDate
	FROM
	   faculty
	WHERE
	   FacHireDate > '1996-12-31';
		<table><tr><th>FacFirstName</th><th>FacLastName</th><th>FacCity</th><th>InflatedSalary</th><th>FacHireDate</th></tr><tr><td>NICKI</td><td>MACON</td><td>BELLEVUE</td><td>78000</td><td>1997/4/11</td></tr><tr><td>CRISTOPHER</td><td>COLAN</td><td>SEATTLE</td><td>48000</td><td>1999/3/1</td></tr><tr><td>JULIA</td><td>MILLS</td><td>SEATTLE</td><td>90000</td><td>2000/3/15</td></tr></table>

Q3	SELECT
	   OfferNo, CourseNo
	FROM
	   offering
	WHERE
	   FacSSN IS NULL AND OffYear = '2006';
		<table><tr><th>OfferNo</th><th>CourseNo</th></tr><tr><td>1111</td><td>IS320</td></tr></table>

Q4	SELECT
	   OfferNo, CourseNo, OffTerm, OffYear, FacSSN
	FROM
	   offering
	WHERE
	   (OffTerm = 'FALL' AND OffYear = '2005')
	     OR (OffTerm = 'SPRING' AND OffYear = '2006');
		<table><tr><th>OfferNo</th><th>CourseNo</th><th>OffTerm</th><th>OffYear</th><th>FacSSN</th></tr><tr><td>1234</td><td>IS320</td><td>FALL</td><td>2005</td><td>98765432</td></tr><tr><td>3333</td><td>IS320</td><td>SPRING</td><td>2006</td><td>98765432</td></tr><tr><td>4321</td><td>IS320</td><td>FALL</td><td>2005</td><td>98765432</td></tr><tr><td>5679</td><td>IS480</td><td>SPRING</td><td>2006</td><td>876543210</td></tr><tr><td>7777</td><td>FIN480</td><td>SPRING</td><td>2006</td><td>765432109</td></tr><tr><td>9876</td><td>IS460</td><td>SPRING</td><td>2006</td><td>654321098</td></tr></table>

| Q5 | SELECT
    OfferNo, course.CourseNo, OffDays
FROM
    offering
      JOIN
    course ON offering.CourseNo = course.CourseNo
WHERE
    (CrsDesc LIKE '%finance%'
      OR CrsDesc LIKE '%database%')
      AND OffTerm = 'winter'
      AND OffYear = '2006'; | <table><tr><th>OfferNo</th><th>CourseNo</th><th>OffDays</th></tr><tr><td>5555</td><td>FIN300</td><td>MW</td></tr><tr><td>5678</td><td>IS480</td><td>MW</td></tr></table> |

| Q6 | SELECT
    OfferNo,
    CourseNo,
    CONCAT(FacFirstName, ' ', FacLastName) AS 'Instructor Name'
FROM
    offering
      JOIN
    faculty ON offering.FacSSN = faculty.FacSSN
WHERE
    CourseNo LIKE 'FIN%'
      AND OffTerm = 'winter'
      AND OffYear = '2006'
      AND FacRank = 'PROF'; | <table><tr><th>OfferNo</th><th>CourseNo</th><th>Instructor Name</th></tr><tr><td>5555</td><td>FIN300</td><td>NICKI MACON</td></tr></table> |

| Q7 | SELECT
    course.CourseNo, COUNT(*) AS NumOfferings
FROM
    course
      JOIN
    offering ON course.CourseNo = offering.CourseNo
GROUP BY CourseNo; | <table><tr><th>CourseNo</th><th>NumOfferings</th></tr><tr><td>FIN300</td><td>1</td></tr><tr><td>FIN450</td><td>1</td></tr><tr><td>FIN480</td><td>1</td></tr><tr><td>IS320</td><td>6</td></tr><tr><td>IS460</td><td>2</td></tr><tr><td>IS480</td><td>2</td></tr></table> |

Q8	SELECT
	    StdMajor, ROUND(AVG(StdGPA), 1) AS AvgGPA
	FROM
	    student
	WHERE
	    StdClass = 'JR' OR StdClass = 'SR'
	GROUP BY StdMajor
	HAVING AvgGPA > 3.3;
		StdMajor | AvgGPA
		ACCT | 3.5

Q8

```
SELECT
    StdMajor, ROUND(AVG(StdGPA), 1) AS AvgGPA
FROM
    student
WHERE
    StdClass = 'JR' OR StdClass = 'SR'
GROUP BY StdMajor
HAVING AvgGPA > 3.3;
```

StdMajor	AvgGPA
ACCT	3.5

Q9

```
SELECT
    StdMajor as 'Major',
    StdClass as 'Class',
    MIN(StdGPA) AS MinGPA,
    MAX(StdGPA) AS MaxGPA
FROM
    student
GROUP BY StdMajor , StdClass;
```

Major	Class	MinGPA	MaxGPA
IS	FR	3	3
FIN	JR	2.5	2.7
ACCT	JR	3.5	3.5
IS	SR	2.2	4
FIN	SR	3.2	3.2
IS	JR	3.6	3.6
ACCT	SO	3.3	3.3
IS	SO	3.8	3.8

Q10

```
SELECT
    OffLocation, COUNT(*) AS '2006OfferCount'
FROM
    offering
WHERE
    OffYear = '2006'
GROUP BY OffLocation;
```

OffLocation	2006OfferCount
BLM302	3
BLM214	1
BLM207	1
BLM412	1
BLM212	1
BLM305	1
BLM405	1
BLM307	1

Q11

```
SELECT
    OfferNo,
    course.CourseNo,
    CrsDesc,
```

OfferNo	CourseNo	CrsDesc	OffDays	OffLocation	OffTime
9876	IS460	SYSTEMS ANALYSIS	TTH	BLM307	1:30pm

```
        OffDays,
        OffLocation,
        OffTime
    FROM
        course
            JOIN
        offering ON course.CourseNo = offering.CourseNo
            JOIN
        faculty ON offering.FacSSN = faculty.FacSSN
    WHERE
        FacFirstName = 'Leonard'
            AND FacLastName = 'Fibon'
            AND OffTerm = 'spring'
            AND OffYear = '2006';
```

Q12	SELECT

```
    offering.OfferNo,
    CourseNo,
    OffDays,
    OffLocation,
    OffTime,
    FacLastName
FROM
    student
        JOIN
    registration ON student.StdSSN = registration.StdSSN
        JOIN
    enrollment ON registration.RegNo = enrollment.RegNo
        JOIN
    offering ON enrollment.OfferNo = offering.OfferNo
        JOIN
    faculty ON offering.FacSSN = faculty.FacSSN
WHERE
    StdFirstName = 'Candy'

        AND StdLastName = 'Kendall'
        AND OffYear = '2005';
```

OfferNo	CourseNo	OffDays	OffLocation	OffTime	FacLastName
1234	IS320	MW	BLM302	10:30am	VINCE

Q13	SELECT
	    Subr.FacFirstName AS 'Subr.FacFirstName',
	    Subr.FacLastName AS 'Subr.FacLastName',
	    Subr.FacSalary AS 'Subr.FacSalary',
	    Supr.FacFirstName AS 'Supr.FacFirstName',
	    Supr.FacLastName AS 'Supr.FacLastName',
	    Supr.FacSalary AS 'Supr.FacSalary'
	FROM
	    faculty Subr,
	    faculty Supr
	WHERE
	    Subr.FacSupervisor = Supr.FacSSN
	      AND Subr.FacSalary < Supr.FacSalary;
		<table><tr><th>Subr.FacFirstName</th><th>Subr.FacLastName</th><th>Subr.FacSalary</th><th>Supr.FacFirstName</th><th>Supr.FacLastName</th><th>Supr.FacSalary</th></tr><tr><td>LEONARD</td><td>VINCE</td><td>35000</td><td>LEONARD</td><td>FIBON</td><td>70000</td></tr><tr><td>LEONARD</td><td>FIBON</td><td>70000</td><td>VICTORIA</td><td>EMMANUEL</td><td>120000</td></tr><tr><td>CRISTOPHER</td><td>COLAN</td><td>40000</td><td>LEONARD</td><td>FIBON</td><td>70000</td></tr></table>

Q14	SELECT
	    CONCAT(FacFirstName, ' ', FacLastName) AS 'Faculty Name',
	    o1.OffYear AS 'Year',
	    o1.CourseNo
	FROM
	    offering o1,
	    offering o2,
	    faculty
	WHERE
	    o1.CourseNo = o2.CourseNo
	      AND faculty.FacSSN = o1.FacSSN
	      AND faculty.FacSupervisor = o2.FacSSN
	      AND o1.CourseNo = o2.CourseNo
	      AND o1.OffYear = o2.OffYear
		<table><tr><th>Faculty Name</th><th>Year</th><th>CourseNo</th></tr><tr><td>LEONARD VINCE</td><td>2006</td><td>IS320</td></tr><tr><td>LEONARD FIBON</td><td>2006</td><td>IS320</td></tr></table>

Q15	SELECT
	    CourseNo,
	    enrollment.OfferNo,
	    ROUND(AVG(StdGPA), 1) AS AvgGPA
	FROM
	    student
	      JOIN
	    registration ON student.StdSSN = registration.StdSSN
	      JOIN
	    enrollment ON registration.RegNo = enrollment.RegNo
	      JOIN
		<table><tr><th>CourseNo</th><th>OfferNo</th><th>AvgGPA</th></tr><tr><td></td><td></td><td></td></tr></table>

	offering ON enrollment.OfferNo = offering.OfferNo
	WHERE
	   OffTerm = 'winter'
	group by CourseNo,
	   enrollment.OfferNo
	HAVING AvgGPA > '3'	

Q16	SELECT
	   OfferNo,
	   CourseNo,
	   faculty.FacSSN AS 'faculty.FacSSN',
	   FacFirstName,
	   FacLastName
	FROM
	   offering
	     LEFT JOIN
	   faculty ON offering.FacSSN = faculty.FacSSN
	WHERE
	   CourseNo LIKE 'IS%'
	ORDER BY faculty.FacSSN;
		<table><tr><th>OfferNo</th><th>CourseNo</th><th>faculty.FacSSN</th><th>FacFirstName</th><th>FacLastName</th></tr><tr><td>1111</td><td>IS320</td><td>NULL</td><td>NULL</td><td>NULL</td></tr><tr><td>2222</td><td>IS460</td><td>NULL</td><td>NULL</td><td>NULL</td></tr><tr><td>1234</td><td>IS320</td><td>98765432</td><td>LEONARD</td><td>VINCE</td></tr><tr><td>3333</td><td>IS320</td><td>98765432</td><td>LEONARD</td><td>VINCE</td></tr><tr><td>4321</td><td>IS320</td><td>98765432</td><td>LEONARD</td><td>VINCE</td></tr><tr><td>4444</td><td>IS320</td><td>543210987</td><td>VICTORIA</td><td>EMMANUEL</td></tr><tr><td>8888</td><td>IS320</td><td>654321098</td><td>LEONARD</td><td>FIBON</td></tr><tr><td>9876</td><td>IS460</td><td>654321098</td><td>LEONARD</td><td>FIBON</td></tr><tr><td>5679</td><td>IS480</td><td>876543210</td><td>CRISTOPHER</td><td>COLAN</td></tr><tr><td>5678</td><td>IS480</td><td>987654321</td><td>JULIA</td><td>MILLS</td></tr></table>

Q17	SELECT
	   FacSSN AS 'SSN',
	   FacFirstName AS 'FirstName',
	   FacLastName AS 'LastName',
	   FacRank AS 'Rank',
	   FacSalary AS 'Salary'
	FROM
	   student,
	   faculty
	WHERE
	   StdSSN = FacSSN;
		<table><tr><th>SSN</th><th>FirstName</th><th>LastName</th><th>Rank</th><th>Salary</th></tr><tr><td>876543210</td><td>CRISTOPHER</td><td>COLAN</td><td>ASST</td><td>40000</td></tr></table>

Q18	SELECT
	   distinct faculty.FacSSN,
	   CONCAT(FacFirstName, ' ', FacLastName) AS 'Name',
	   FacCity
	FROM
	   offering
	     JOIN
	   faculty ON offering.FacSSN = faculty.FacSSN
		<table><tr><th>FacSSN</th><th>Name</th><th>FacCity</th></tr><tr><td>543210987</td><td>VICTORIA EMMANUEL</td><td>BOTHELL</td></tr><tr><td>765432109</td><td>NICKI MACON</td><td>BELLEVUE</td></tr><tr><td>987654321</td><td>JULIA MILLS</td><td>SEATTLE</td></tr></table>

	WHERE OffTerm = 'winter' AND OffYear = '2006'		

| Q19 | SELECT
    distinct Subr.FacFirstName,
    Subr.FacLastName,
    CONCAT(Supr.FacFirstName, ' ', Supr.FacLastName) AS 'Supervisor'
FROM
    faculty Subr,
    faculty Supr,
    offering
WHERE
    Subr.FacSupervisor = Supr.FacSSN
      AND Subr.FacSSN = offering.FacSSN
      AND OffYear = '2006'
      AND CourseNo LIKE 'IS%'; |

CourseNo	CrsDesc	NumOfferings	AvgEnroll
IS320	FUNDAMENTALS OF BUSINESS PROGRAMMING	6	2
IS460	SYSTEMS ANALYSIS	2	3
FIN300	FUNDAMENTALS OF FINANCE	1	0
IS480	FUNDAMENTALS OF DATABASE MANAGEMENT	2	5
FIN450	PRINCIPLES OF INVESTMENTS	1	0
FIN480	CORPORATE FINANCE	1	0

| Q20 | SELECT
    distinct Subr.FacFirstName,
    Subr.FacLastName,
    CONCAT(Supr.FacFirstName, ' ', Supr.FacLastName) AS 'Supervisor'
FROM
    faculty Subr,
    faculty Supr,
    offering
WHERE
    Subr.FacSupervisor = Supr.FacSSN
      AND Subr.FacSSN = offering.FacSSN
      AND OffYear = '2006'
      AND CourseNo LIKE 'IS%'; |

FacFirstName	FacLastName	Supervisor
LEONARD	VINCE	LEONARD FIBON
JULIA	MILLS	NICKI MACON
CRISTOPHER	COLAN	LEONARD FIBON
LEONARD	FIBON	VICTORIA EMMANUEL