**Student’s Name: Min Htet Aung**

**Assignment-2 Submission**

**SQL-1**

SELECT FacFirstName AS 'FirstName', FacLastName AS 'LastName', FacCity AS 'City', FacSalary AS 'facsalary', ROUND(FacSalary - (FacSalary \* 0.05)) AS 'DecreasedSalary', FacHireDate AS 'HireDate'

FROM FACULTY

WHERE YEAR(FacHireDate) < 1998;

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**SQL-2**

SELECT F1.FacSSN AS 'facssn', CONCAT(F1.FacFirstName, ' ', F1.FacLastName) AS 'Faculty Name', O1.OffYear AS 'Offyear', O1.CourseNo

FROM OFFERING AS O1

JOIN FACULTY AS F1 ON O1.FACSSN = F1.FacSSN

JOIN FACULTY AS F2 ON F1.FacSupervisor = F2.FacSSN

JOIN OFFERING AS O2 ON F2.FACSSN = O2.FACSSN

WHERE O1.OffYear = O2.OffYear AND O1.CourseNo = O2.CourseNo

ORDER BY F1.FacSSN;

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**SQL-3**

SELECT OfferNo, CourseNo,CONCAT(FacFirstName,' ',FacLastName) AS 'Instructor Name'

FROM offering JOIN faculty ON offering.FacSSN = faculty.FacSSN

WHERE CourseNo LIKE '%FIN%' AND FacRank = 'PROF' AND OffTerm = 'WINTER' AND OffYear = 2006;

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**SQL-4**

SELECT StdMajor, ROUND(avg(StdGPA),1) AS 'AvgGPA'

FROM student

GROUP BY StdMajor, StdClass = 'JR' AND 'SR'

HAVING avg(StdGPA) > 2;

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**SQL-5**

SELECT OffLocation, COUNT(OffLocation) AS '2006OfferCount'

FROM offering

GROUP BY OffLocation, OffYear

HAVING OffYear = 2006;

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**SQL-6**

SELECT offering.OfferNo, CourseNo, OffDays, OffLocation, OffTime,FacLastName

FROM faculty JOIN offering ON faculty.FacSSN = offering.FacSSN

JOIN enrollment ON offering.OfferNo = enrollment.OfferNo JOIN

registration ON enrollment.RegNo = registration.RegNo JOIN

student ON registration.StdSSN = student.StdSSN

WHERE UPPER(StdFirstName) = 'TESS' AND UPPER(StdLastName) = 'DODGE' AND OffYear = 2006;

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**SQL-7**

SELECT CrsDesc, course.CourseNo, count(DISTINCT enrollment.OfferNo) AS NumOfferings, ROUND(avg(DISTINCT OffNumEnrolled)) AS AvgEnroll

FROM enrollment JOIN offering ON enrollment.OfferNo = offering.OfferNo

JOIN course ON offering.CourseNo = course.CourseNo

GROUP BY CourseNo;

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**SQL-8**

SELECT OfferNo, CourseNo, LPAD(faculty.FacSSN,9,'0') AS 'faculty.FacSSN', FacFirstName ,FacLastName

FROM offering LEFT JOIN faculty ON offering.FacSSN = faculty.FacSSN

WHERE CourseNo LIKE 'IS%'

ORDER BY LPAD(faculty.FacSSN,9,'0');

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**SQL-9**

SELECT DISTINCT faculty.FacSSN, concat(FacFirstName,' ',FacLastName) AS 'Instructor Name' , FacCity

FROM faculty JOIN offering ON faculty.FacSSN = offering.FacSSN

WHERE OffTerm = 'WINTER';

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**SQL-10**

SELECT DISTINCT FacFirstName, FacLastName, FacRank, SV.Supervisor

FROM faculty JOIN offering ON faculty.FacSSN = offering.FacSSN

JOIN (SELECT CONCAT(F2.FacFirstName,' ', F2.FacLastName) AS Supervisor, F1.FacSSN AS FacSSN FROM faculty AS F1 JOIN faculty AS F2 ON F1.FacSupervisor = F2.FacSSN)AS SV ON faculty.FacSSN = SV.FacSSN

WHERE upper(CourseNo) LIKE "%IS%" AND OffYear = 2006

