LAB TEST 2 SUBMISSION

Student Name	Saiyeda Maham Shamail
Student ID	101328732

QUESTION 1: PET HOSPITAL

[in the space below, insert your 1NF, 2NF and 3NF. Clearly label each normal form.]

1NF

> PET (**pet_id**, pet_name, pet_type, pet_age, ownerid, owner first name, owner last name)
>
> VISIT_LOG(**pet_id_visit_num,** visit date, procedure_no, procedure_name)

2NF

> PET (**pet_id**, pet_name, pet_type, pet_age, **ownerid**)
>
> VISIT_LOG(**pet_id_visit_num,** visit date, procedure_no, procedure_name)
>
> OWNER(**ownerid**, owner first name, owner last name)

3NF

> PET (**pet_id**, pet_name, pet_type, pet_age, **ownerid**)
>
> VISIT_LOG(**pet_id_visit_num,** visit date, **procedure_no**)
>
> OWNER(**ownerid**, owner first name, owner last name)
>
> PROCEDURE(**procedure_no**, procedure_name)

QUESTION 2: UNIVERSITY TRANSCRIPT

[In the space below, insert your normalization process. Clearly label each normal form.]

UNF
University_Transcript(**Trancript_id**, Program_Type, Degree_Name, Degree_Start_Date, Student_name, Student_ID,
Resident_Attempted_Credits, Resident_Earned_Credits, Resident_Points, Resident_Cumulative_GPA,
Transfer_Cumulative_Attempted_Credits, Transfer_Cumulative_Earned_Credits, Transfer_Cumulative_Points, Transfer_Cumulative_GPA,
Overall_Attempted_Credits, Overall_Earned_Credits, Overall_Points, Overall_Cumulative_GPA,
Semester_Type, Semester_Start_Year, Semester_End_Year, Course_ID, Course_Name,
Course_Atempted_Credits, Course_Earned_Credits, Course_Grade, Course_Points,
Total_Atempted_Credits, Total_Earned_Credits,
Term_GPA, Cumulative_GPA,
Transfer_College_Name, Transfer_Course_ID, Transfer_Course_Name,
Transfer_Course_Attempted_Credits, Transfer_Course_Earned_Credits,
Transfer_Course_Points)

1NF
University_Transcript(**Trancript_ID**, Program_Type, Degree_Name, Degree_Start_Date, Student_name, Student_ID,

SEMESTER(**Trancript_ID_Semester_ID**, Semester_Type, Semester_Start_Year, Semester_End_Year, Total_Atempted_Credits, Total_Earned_Credits,
Term_GPA, Cumulative_GPA)

COURSE(**Semester_ID_Course_ID**, Course_Name, Course_Atempted_Credits, Course_Earned_Credits, Course_Grade, Course_Points)

TRANSFER_CREDIT_REPORT(**Trancript_id_Tranfer_Credit_Report_ID**, Transfer_College_Name, Transfer_Cumulative_Attempted_Credits, Transfer_Cumulative_Earned_Credits, Transfer_Cumulative_Points, Transfer_Cumulative_GPA)

TRANFERED_COURSE(**Tranfer_Credit_Report_ID_Transfer_Course_ID**, Transfer_Course_Name, Transfer_Course_Attempted_Credits, Transfer_Course_Earned_Credits, Transfer_Course_Points)

RESIDENT_CREDIT_REPORT(**Trancript_id_Resident_Credit_Report_ID**, Resident_Attempted_Credits, Resident_Earned_Credits, Resident_Points, Resident_Cumulative_GPA)

2NF

University_Transcript(**Trancript_ID**, Program_Type, Degree_Name, Degree_Start_Date, Student_name, Student_ID, **Cumulative_Credit_Report_ID)**

SEMESTER(**Trancript_ID_Semester_ID**, Semester_Type, Semester_Start_Year, Semester_End_Year, Total_Atempted_Credits, Total_Earned_Credits, Term_GPA, Cumulative_GPA)

COURSE(**Semester_ID_Course_ID**, Course_Name, Course_Atempted_Credits, Course_Earned_Credits, Course_Grade, Course_Points)

TRANSFER_CREDIT_REPORT(**Tranfer_Credit_Report_ID**, Transfer_College_Name, Transfer_Cumulative_Attempted_Credits, Transfer_Cumulative_Earned_Credits, Transfer_Cumulative_Points, Transfer_Cumulative_GPA)

TRANFERED_COURSE(**Tranfer_Credit_Report_ID_Transfer_Course_ID**, Transfer_Course_Name, Transfer_Course_Attempted_Credits, Transfer_Course_Earned_Credits, Transfer_Course_Points)

RESIDENT_CREDIT_REPORT(**Resident_Credit_Report_ID**, Resident_Attempted_Credits, Resident_Earned_Credits, Resident_Points, Resident_Cumulative_GPA)

CUMULATIVE_CREDIT_REPORT(**Tranfer_Credit_Report_ID_Resident_Credit_Report_ID**, Overall_Attempted_Credits, Overall_Earned_Credits, Overall_Points, Overall_Cumulative_GPA)

3NF

University_Transcript(**Trancript_ID**, S**tudent_ID, Cumulative_Credit_Report_ID)**

STUDENT(**Student_ID**, Student_name, Degree_Start_Date, Degree_Name, Program_Type)

SEMESTER(**Trancript_ID_Semester_ID**, Semester_Type, Semester_Start_Year, Semester_End_Year, Total_Atempted_Credits, Total_Earned_Credits, Term_GPA)

COURSE(**Semester_ID_Course_ID**, Course_Name, Course_Atempted_Credits, Course_Earned_Credits, Course_Grade, Course_Points)

TRANSFER_CREDIT_REPORT(**Tranfer_Credit_Report_ID**, Transfer_College_Name, Transfer_Cumulative_Attempted_Credits, Transfer_Cumulative_Earned_Credits, Transfer_Cumulative_Points, Transfer_Cumulative_GPA)

TRANFERED_COURSE(**Tranfer_Credit_Report_ID_Transfer_Course_ID**, Transfer_Course_Name, Transfer_Course_Attempted_Credits, Transfer_Course_Earned_Credits, Transfer_Course_Points)

RESIDENT_CREDIT_REPORT(**Resident_Credit_Report_ID**, Resident_Attempted_Credits, Resident_Earned_Credits, Resident_Points, Resident_Cumulative_GPA)

CUMULATIVE_CREDIT_REPORT(**Tranfer_Credit_Report_ID_Resident_Credit_Report_ID,** Overall_Attempted_Credits, Overall_Earned_Credits, Overall_Points, Overall_Cumulative_GPA)