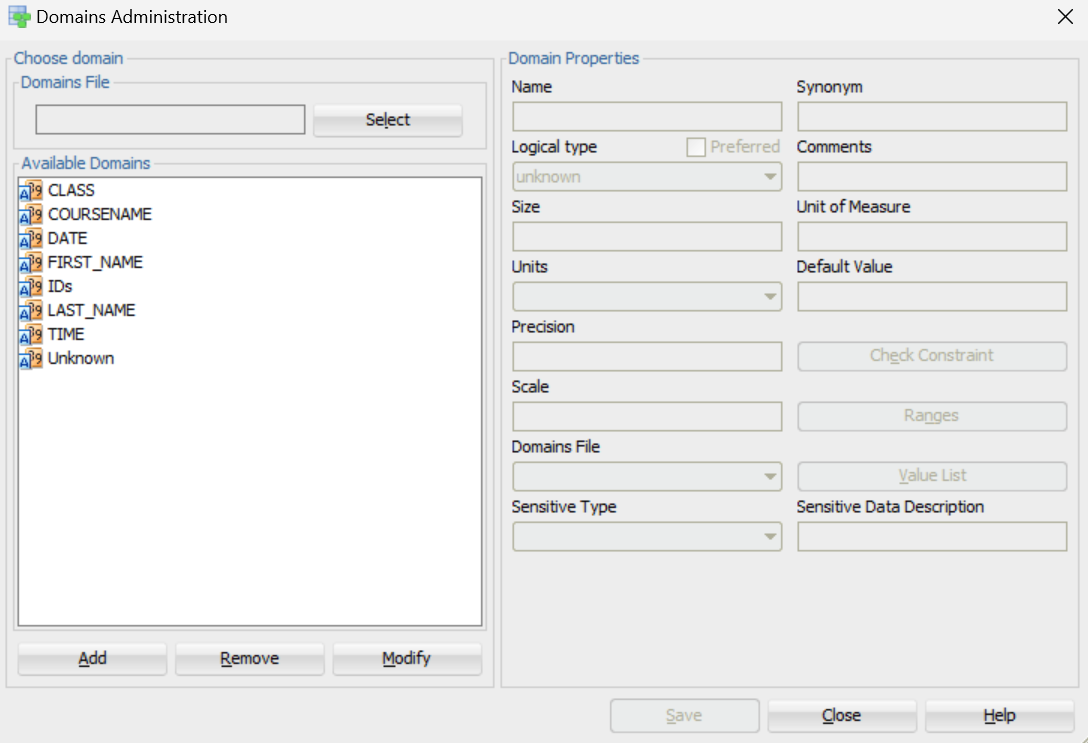
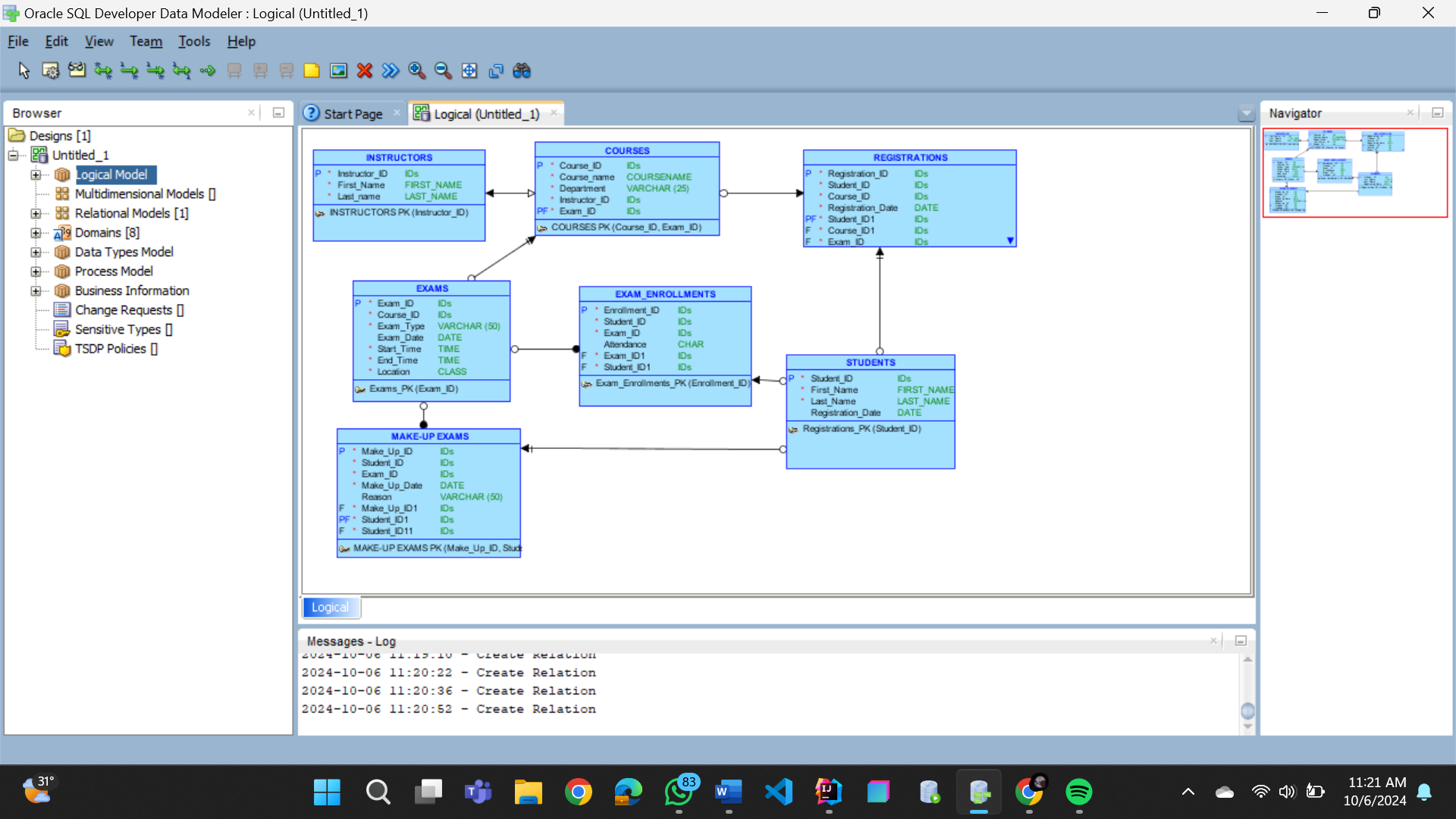
**DB Lab 07**

**Name:** Hafsa Salman

**Roll no.** 22K-5161

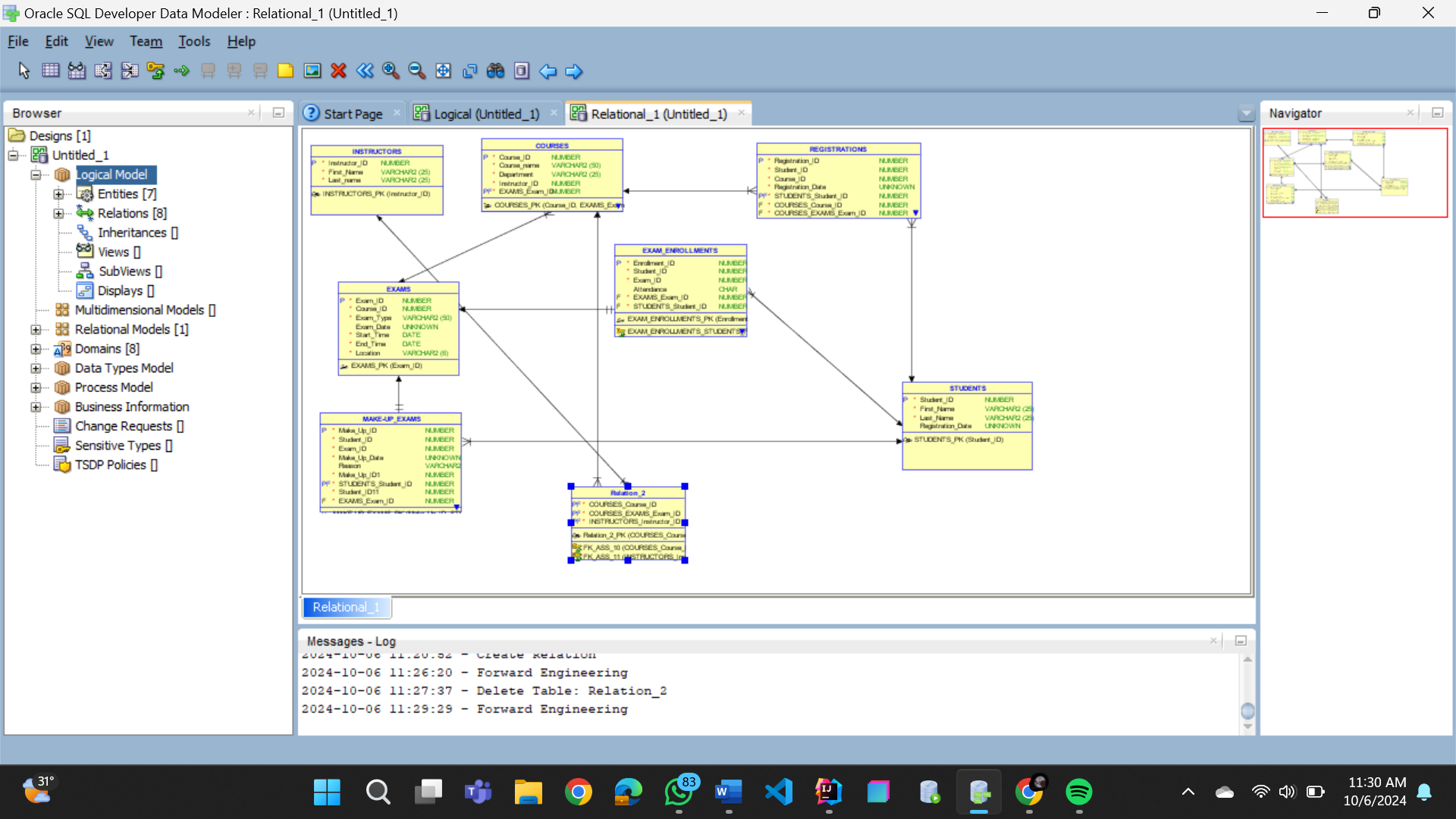
**Lab Activity**





A computer screen shot of a computer screen

Description automatically generated



DDL:

-- Generated by Oracle SQL Developer Data Modeler 4.1.1.888

-- at: 2024-10-06 11:33:55 PKT

-- site: Oracle Database 11g

-- type: Oracle Database 11g

CREATE TABLE COURSES

(

Course\_ID NUMBER NOT NULL ,

Course\_name VARCHAR2 (50) NOT NULL ,

Department VARCHAR2 (25) NOT NULL ,

Instructor\_ID NUMBER NOT NULL ,

EXAMS\_Exam\_ID NUMBER NOT NULL

) ;

-- WARNING: Column COURSES.Course\_ID has no check constraint defined for this database type

-- WARNING: Column COURSES.Instructor\_ID has no check constraint defined for this database type

-- WARNING: Column COURSES.EXAMS\_Exam\_ID has no check constraint defined for this database type

ALTER TABLE COURSES ADD CONSTRAINT COURSES\_PK PRIMARY KEY ( Course\_ID, EXAMS\_Exam\_ID ) ;

CREATE TABLE EXAMS

(

Exam\_ID NUMBER NOT NULL ,

Course\_ID NUMBER NOT NULL ,

Exam\_Type VARCHAR2 (50) NOT NULL ,

Exam\_Date UNKNOWN

-- ERROR: Datatype UNKNOWN is not allowed

,

Start\_Time DATE NOT NULL ,

End\_Time DATE NOT NULL ,

Location VARCHAR2 (6) NOT NULL

) ;

-- WARNING: Column EXAMS.Exam\_ID has no check constraint defined for this database type

-- WARNING: Column EXAMS.Course\_ID has no check constraint defined for this database type

ALTER TABLE EXAMS ADD CONSTRAINT EXAMS\_PK PRIMARY KEY ( Exam\_ID ) ;

CREATE TABLE EXAM\_ENROLLMENTS

(

Enrollment\_ID NUMBER NOT NULL ,

Student\_ID NUMBER NOT NULL ,

Exam\_ID NUMBER NOT NULL ,

Attendance CHAR

-- WARNING: CHAR size not specified

,

EXAMS\_Exam\_ID NUMBER NOT NULL ,

STUDENTS\_Student\_ID NUMBER NOT NULL

) ;

-- WARNING: Column EXAM\_ENROLLMENTS.Enrollment\_ID has no check constraint defined for this database type

-- WARNING: Column EXAM\_ENROLLMENTS.Student\_ID has no check constraint defined for this database type

-- WARNING: Column EXAM\_ENROLLMENTS.Exam\_ID has no check constraint defined for this database type

-- WARNING: Column EXAM\_ENROLLMENTS.EXAMS\_Exam\_ID has no check constraint defined for this database type

-- WARNING: Column EXAM\_ENROLLMENTS.STUDENTS\_Student\_ID has no check constraint defined for this database type

CREATE UNIQUE INDEX EXAM\_ENROLLMENTS\_\_IDX ON EXAM\_ENROLLMENTS

(

EXAMS\_Exam\_ID ASC

)

;

ALTER TABLE EXAM\_ENROLLMENTS ADD CONSTRAINT EXAM\_ENROLLMENTS\_PK PRIMARY KEY ( Enrollment\_ID ) ;

CREATE TABLE INSTRUCTORS

(

Instructor\_ID NUMBER NOT NULL ,

First\_Name VARCHAR2 (25) NOT NULL ,

Last\_name VARCHAR2 (25) NOT NULL

) ;

-- WARNING: Column INSTRUCTORS.Instructor\_ID has no check constraint defined for this database type

ALTER TABLE INSTRUCTORS ADD CONSTRAINT INSTRUCTORS\_PK PRIMARY KEY ( Instructor\_ID ) ;

CREATE TABLE "MAKE-UP\_EXAMS"

(

Make\_Up\_ID NUMBER NOT NULL ,

Student\_ID NUMBER NOT NULL ,

Exam\_ID NUMBER NOT NULL ,

Make\_Up\_Date UNKNOWN

-- ERROR: Datatype UNKNOWN is not allowed

NOT NULL ,

Reason VARCHAR2 (50) ,

Make\_Up\_ID1 NUMBER NOT NULL ,

STUDENTS\_Student\_ID NUMBER NOT NULL ,

Student\_ID11 NUMBER NOT NULL ,

EXAMS\_Exam\_ID NUMBER NOT NULL

) ;

-- WARNING: Column MAKE-UP\_EXAMS.Make\_Up\_ID has no check constraint defined for this database type

-- WARNING: Column MAKE-UP\_EXAMS.Student\_ID has no check constraint defined for this database type

-- WARNING: Column MAKE-UP\_EXAMS.Exam\_ID has no check constraint defined for this database type

-- WARNING: Column MAKE-UP\_EXAMS.Make\_Up\_ID1 has no check constraint defined for this database type

-- WARNING: Column MAKE-UP\_EXAMS.STUDENTS\_Student\_ID has no check constraint defined for this database type

-- WARNING: Column MAKE-UP\_EXAMS.Student\_ID11 has no check constraint defined for this database type

-- WARNING: Column MAKE-UP\_EXAMS.EXAMS\_Exam\_ID has no check constraint defined for this database type

CREATE UNIQUE INDEX "MAKE-UP\_EXAMS\_\_IDX" ON "MAKE-UP\_EXAMS"

(

EXAMS\_Exam\_ID ASC

)

;

ALTER TABLE "MAKE-UP\_EXAMS" ADD CONSTRAINT "MAKE-UP\_EXAMS\_PK" PRIMARY KEY ( Make\_Up\_ID, STUDENTS\_Student\_ID ) ;

CREATE TABLE REGISTRATIONS

(

Registration\_ID NUMBER NOT NULL ,

Student\_ID NUMBER NOT NULL ,

Course\_ID NUMBER NOT NULL ,

Registration\_Date UNKNOWN

-- ERROR: Datatype UNKNOWN is not allowed

NOT NULL ,

STUDENTS\_Student\_ID NUMBER NOT NULL ,

COURSES\_Course\_ID NUMBER NOT NULL ,

COURSES\_EXAMS\_Exam\_ID NUMBER NOT NULL

) ;

-- WARNING: Column REGISTRATIONS.Registration\_ID has no check constraint defined for this database type

-- WARNING: Column REGISTRATIONS.Student\_ID has no check constraint defined for this database type

-- WARNING: Column REGISTRATIONS.Course\_ID has no check constraint defined for this database type

-- WARNING: Column REGISTRATIONS.STUDENTS\_Student\_ID has no check constraint defined for this database type

-- WARNING: Column REGISTRATIONS.COURSES\_Course\_ID has no check constraint defined for this database type

-- WARNING: Column REGISTRATIONS.COURSES\_EXAMS\_Exam\_ID has no check constraint defined for this database type

ALTER TABLE REGISTRATIONS ADD CONSTRAINT REGISTRATIONS\_PK PRIMARY KEY ( Registration\_ID, STUDENTS\_Student\_ID ) ;

CREATE TABLE Relation\_2

(

COURSES\_Course\_ID NUMBER NOT NULL ,

COURSES\_EXAMS\_Exam\_ID NUMBER NOT NULL ,

INSTRUCTORS\_Instructor\_ID NUMBER NOT NULL

) ;

-- WARNING: Column Relation\_2.COURSES\_Course\_ID has no check constraint defined for this database type

-- WARNING: Column Relation\_2.COURSES\_EXAMS\_Exam\_ID has no check constraint defined for this database type

-- WARNING: Column Relation\_2.INSTRUCTORS\_Instructor\_ID has no check constraint defined for this database type

ALTER TABLE Relation\_2 ADD CONSTRAINT Relation\_2\_PK PRIMARY KEY ( COURSES\_Course\_ID, COURSES\_EXAMS\_Exam\_ID, INSTRUCTORS\_Instructor\_ID ) ;

CREATE TABLE STUDENTS

(

Student\_ID NUMBER NOT NULL ,

First\_Name VARCHAR2 (25) NOT NULL ,

Last\_Name VARCHAR2 (25) NOT NULL ,

Registration\_Date UNKNOWN

-- ERROR: Datatype UNKNOWN is not allowed

) ;

-- WARNING: Column STUDENTS.Student\_ID has no check constraint defined for this database type

ALTER TABLE STUDENTS ADD CONSTRAINT STUDENTS\_PK PRIMARY KEY ( Student\_ID ) ;

ALTER TABLE COURSES ADD CONSTRAINT COURSES\_EXAMS\_FK FOREIGN KEY ( EXAMS\_Exam\_ID ) REFERENCES EXAMS ( Exam\_ID ) ;

ALTER TABLE EXAM\_ENROLLMENTS ADD CONSTRAINT EXAM\_ENROLLMENTS\_EXAMS\_FK FOREIGN KEY ( EXAMS\_Exam\_ID ) REFERENCES EXAMS ( Exam\_ID ) ;

ALTER TABLE EXAM\_ENROLLMENTS ADD CONSTRAINT EXAM\_ENROLLMENTS\_STUDENTS\_FK FOREIGN KEY ( STUDENTS\_Student\_ID ) REFERENCES STUDENTS ( Student\_ID ) ;

ALTER TABLE Relation\_2 ADD CONSTRAINT FK\_ASS\_10 FOREIGN KEY ( COURSES\_Course\_ID, COURSES\_EXAMS\_Exam\_ID ) REFERENCES COURSES ( Course\_ID, EXAMS\_Exam\_ID ) ;

ALTER TABLE Relation\_2 ADD CONSTRAINT FK\_ASS\_11 FOREIGN KEY ( INSTRUCTORS\_Instructor\_ID ) REFERENCES INSTRUCTORS ( Instructor\_ID ) ;

ALTER TABLE "MAKE-UP\_EXAMS" ADD CONSTRAINT "MAKE-UP\_EXAMS\_EXAMS\_FK" FOREIGN KEY ( EXAMS\_Exam\_ID ) REFERENCES EXAMS ( Exam\_ID ) ;

ALTER TABLE "MAKE-UP\_EXAMS" ADD CONSTRAINT "MAKE-UP\_EXAMS\_STUDENTS\_FK" FOREIGN KEY ( STUDENTS\_Student\_ID ) REFERENCES STUDENTS ( Student\_ID ) ;

ALTER TABLE REGISTRATIONS ADD CONSTRAINT REGISTRATIONS\_COURSES\_FK FOREIGN KEY ( COURSES\_Course\_ID, COURSES\_EXAMS\_Exam\_ID ) REFERENCES COURSES ( Course\_ID, EXAMS\_Exam\_ID ) ;

ALTER TABLE REGISTRATIONS ADD CONSTRAINT REGISTRATIONS\_STUDENTS\_FK FOREIGN KEY ( STUDENTS\_Student\_ID ) REFERENCES STUDENTS ( Student\_ID ) ;

-- Oracle SQL Developer Data Modeler Summary Report:

--

-- CREATE TABLE 8

-- CREATE INDEX 2

-- ALTER TABLE 17

-- CREATE VIEW 0

-- ALTER VIEW 0

-- CREATE PACKAGE 0

-- CREATE PACKAGE BODY 0

-- CREATE PROCEDURE 0

-- CREATE FUNCTION 0

-- CREATE TRIGGER 0

-- ALTER TRIGGER 0

-- CREATE COLLECTION TYPE 0

-- CREATE STRUCTURED TYPE 0

-- CREATE STRUCTURED TYPE BODY 0

-- CREATE CLUSTER 0

-- CREATE CONTEXT 0

-- CREATE DATABASE 0

-- CREATE DIMENSION 0

-- CREATE DIRECTORY 0

-- CREATE DISK GROUP 0

-- CREATE ROLE 0

-- CREATE ROLLBACK SEGMENT 0

-- CREATE SEQUENCE 0

-- CREATE MATERIALIZED VIEW 0

-- CREATE SYNONYM 0

-- CREATE TABLESPACE 0

-- CREATE USER 0

--

-- DROP TABLESPACE 0

-- DROP DATABASE 0

--

-- REDACTION POLICY 0

--

-- ORDS DROP SCHEMA 0

-- ORDS ENABLE SCHEMA 0

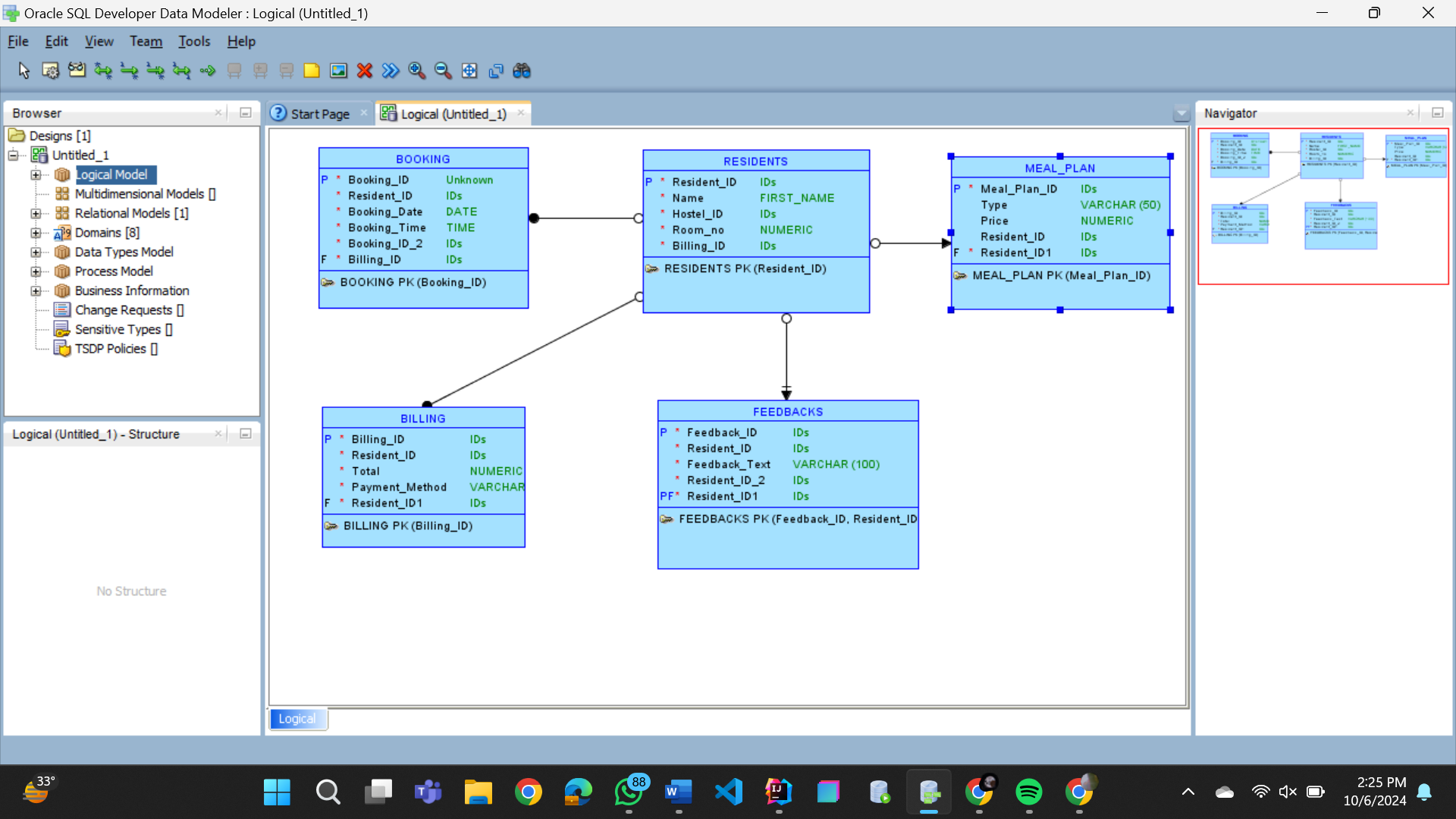
-- ORDS ENABLE OBJECT 0

--

-- ERRORS 4

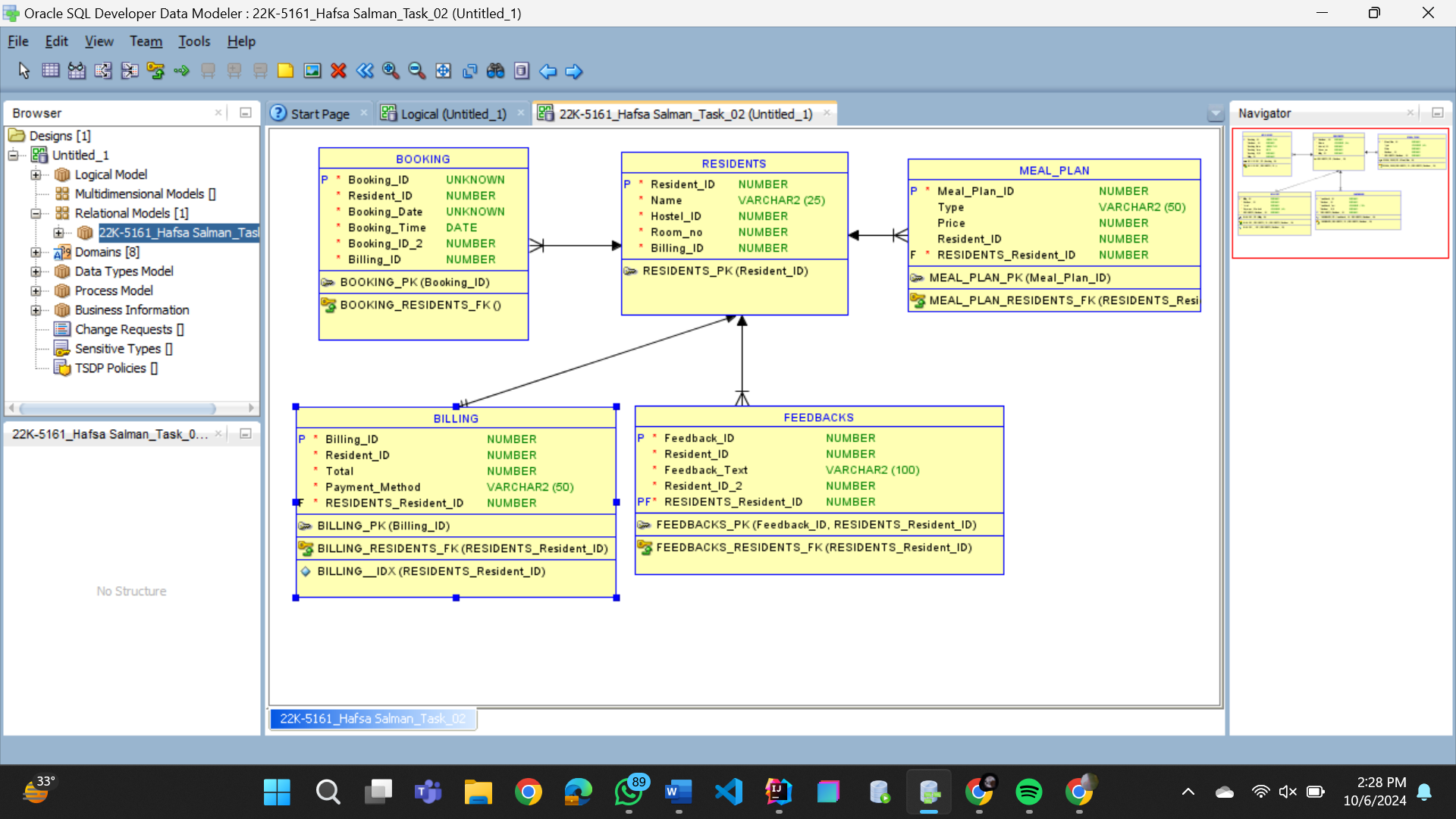
-- WARNINGS 29

**Lab Task**



A screenshot of a computer

Description automatically generated



DDL:

-- Generated by Oracle SQL Developer Data Modeler 4.1.1.888

-- at: 2024-10-06 14:30:00 PKT

-- site: Oracle Database 11g

-- type: Oracle Database 11g

CREATE TABLE BILLING

(

Billing\_ID NUMBER NOT NULL ,

Resident\_ID NUMBER NOT NULL ,

Total NUMBER NOT NULL ,

Payment\_Method VARCHAR2 (50) NOT NULL ,

RESIDENTS\_Resident\_ID NUMBER NOT NULL

) ;

CREATE UNIQUE INDEX BILLING\_\_IDX ON BILLING

(

RESIDENTS\_Resident\_ID ASC

)

;

ALTER TABLE BILLING ADD CONSTRAINT BILLING\_PK PRIMARY KEY ( Billing\_ID ) ;

CREATE TABLE BOOKING

(

Booking\_ID UNKNOWN

-- ERROR: Datatype UNKNOWN is not allowed

NOT NULL ,

Resident\_ID NUMBER NOT NULL ,

Booking\_Date UNKNOWN

-- ERROR: Datatype UNKNOWN is not allowed

NOT NULL ,

Booking\_Time DATE NOT NULL ,

Booking\_ID\_2 NUMBER NOT NULL ,

Billing\_ID NUMBER NOT NULL

) ;

ALTER TABLE BOOKING ADD CONSTRAINT BOOKING\_PK PRIMARY KEY ( Booking\_ID ) ;

CREATE TABLE FEEDBACKS

(

Feedback\_ID NUMBER NOT NULL ,

Resident\_ID NUMBER NOT NULL ,

Feedback\_Text VARCHAR2 (100) NOT NULL ,

Resident\_ID\_2 NUMBER NOT NULL ,

RESIDENTS\_Resident\_ID NUMBER NOT NULL

) ;

ALTER TABLE FEEDBACKS ADD CONSTRAINT FEEDBACKS\_PK PRIMARY KEY ( Feedback\_ID, RESIDENTS\_Resident\_ID ) ;

CREATE TABLE MEAL\_PLAN

(

Meal\_Plan\_ID NUMBER NOT NULL ,

Type VARCHAR2 (50) ,

Price NUMBER ,

Resident\_ID NUMBER ,

RESIDENTS\_Resident\_ID NUMBER NOT NULL

) ;

ALTER TABLE MEAL\_PLAN ADD CONSTRAINT MEAL\_PLAN\_PK PRIMARY KEY ( Meal\_Plan\_ID ) ;

CREATE TABLE RESIDENTS

(

Resident\_ID NUMBER NOT NULL ,

Name VARCHAR2 (25) NOT NULL ,

Hostel\_ID NUMBER NOT NULL ,

Room\_no NUMBER NOT NULL ,

Billing\_ID NUMBER NOT NULL

) ;

ALTER TABLE RESIDENTS ADD CONSTRAINT RESIDENTS\_PK PRIMARY KEY ( Resident\_ID ) ;

ALTER TABLE BILLING ADD CONSTRAINT BILLING\_RESIDENTS\_FK FOREIGN KEY ( RESIDENTS\_Resident\_ID ) REFERENCES RESIDENTS ( Resident\_ID ) ;

-- Error - Foreign Key BOOKING\_RESIDENTS\_FK has no columns

ALTER TABLE FEEDBACKS ADD CONSTRAINT FEEDBACKS\_RESIDENTS\_FK FOREIGN KEY ( RESIDENTS\_Resident\_ID ) REFERENCES RESIDENTS ( Resident\_ID ) ;

ALTER TABLE MEAL\_PLAN ADD CONSTRAINT MEAL\_PLAN\_RESIDENTS\_FK FOREIGN KEY ( RESIDENTS\_Resident\_ID ) REFERENCES RESIDENTS ( Resident\_ID ) ;

-- Oracle SQL Developer Data Modeler Summary Report:

--

-- CREATE TABLE 5

-- CREATE INDEX 1

-- ALTER TABLE 8

-- CREATE VIEW 0

-- ALTER VIEW 0

-- CREATE PACKAGE 0

-- CREATE PACKAGE BODY 0

-- CREATE PROCEDURE 0

-- CREATE FUNCTION 0

-- CREATE TRIGGER 0

-- ALTER TRIGGER 0

-- CREATE COLLECTION TYPE 0

-- CREATE STRUCTURED TYPE 0

-- CREATE STRUCTURED TYPE BODY 0

-- CREATE CLUSTER 0

-- CREATE CONTEXT 0

-- CREATE DATABASE 0

-- CREATE DIMENSION 0

-- CREATE DIRECTORY 0

-- CREATE DISK GROUP 0

-- CREATE ROLE 0

-- CREATE ROLLBACK SEGMENT 0

-- CREATE SEQUENCE 0

-- CREATE MATERIALIZED VIEW 0

-- CREATE SYNONYM 0

-- CREATE TABLESPACE 0

-- CREATE USER 0

--

-- DROP TABLESPACE 0

-- DROP DATABASE 0

--

-- REDACTION POLICY 0

--

-- ORDS DROP SCHEMA 0

-- ORDS ENABLE SCHEMA 0

-- ORDS ENABLE OBJECT 0

--

-- ERRORS 3

-- WARNINGS 0