

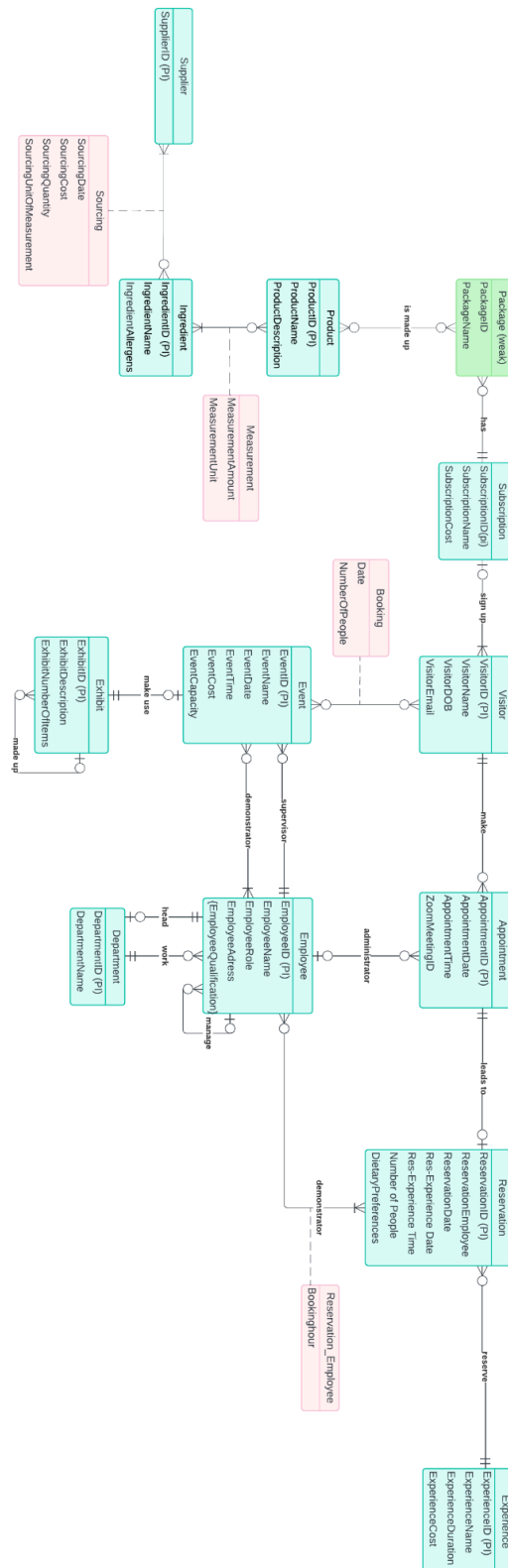
COMP1350 Assignment

Group Number:

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Solutions:

Task 1:



Assumptions:

- Employees work in one department and the department can have many employees

Task 2:

Step1: Strong Entity

Visitor(**VisitorID(pk)**, VisitorName, VisitorDOB, VisitorEmail)

Event(**EventID(pk)**, EventName, EventDate, EventTime, EventCost, EventCapacity)

Exhibit(**ExhibitID(pk)**, ExhibitDescription, ExhibitNumberOfItem)

Appointment (**AppointmentID (pk)**, AppointmentDate, AppointmentTime, ZoomMeeetingID)

Reservation(**ReservationID(pk)**, ReservationEmployee, ReservationDate,
Res-ExperienceDate, Res-ExperienceTime, NumberOfPeople, DietaryPreferences)

Experience(**ExperienceID(pk)**, ExperienceName, ExperienceDuration, ExperienceCost)

Employee(**EmployeeID(pk)**, EmployeeName, EmployeeRole, EmployeeAdresss)

Department(**DepartmentID(pk)**, DepartmentName)

Subscription(**SubscriptionID(pk)**, SubscriptionName, SubscriptionCost)

Product(**ProductID(pk)**, ProductName, ProductDescription)

Ingredient(**IngredientID(pk)**, IngredientName, IngredientAllergens)

Supplier(**SupplierID(pk)**)

Step2: Weak Entity

Package(**SubscriptionID(pk,fk)**, PackagelD(pk), PackageName)

Step 3 - 1 to 1

Event(**EventID(pk)**, ExhibitID(fk), EventName, EventDate, EventTime, EventCost,
EventCapacity)

Department(**DeparmentID(pk)**, EmployeeID(fk), DepartmentName)

Reservation(**ReservationID(pk)**, AppoinmentID(fk), ReservationEmployee,
ReservationDate, Res-ExperienceDate, Res-ExperienceTime, NumberOfPeople,
DietaryPreferences)

Step 4 - one to many

Event(**EventID(pk)**, ExhibitID(fk), EmolyeeID(pk), EventName, EventDate, EventTime,
EventCost, EventCapacity)

Employee(**EmployeeID(pk)**, DepartmentID(fk), ManagerID (fk), EmployeeName,
EmployeeAdresss)

Exhibit(**ExhibitID(pk,fk)**, ExhibitParent(fk), ExhibitDescription, ExhibitNumberOfItem)

Visitor(**visitorID(pk)**, SubscriptionID(fk), VisitorName, VisitorDOB, VisitorEmail)

Appointment(**AppointmentID (pk)**, EmployeeID(fk), AppointmentDate, AppointmentTime, ZoomMeeetingID)

Reservation(**ReservationID(pk)**, AppoinmentID(fk), ExperienceID(fk), ReservationEmployee, ReservationDate, Res-ExperienceDate, Res-ExperienceTime, NumberOfPeople, DietaryPreferences)

Step 5 - many to many

Booking(**VisitorID(pk,fk)**, **EventID(pk,fk)**, Date, NumberOfPeople)

Demonstrator(**EventID(pk,fk)**, **EmployeeID(pk,fk)**)

Reservation_Employee(**ReservationID(pk,fk)**, **EmployeeID(pk,fk)**, Bookinghour)

Package_Product(**Product(pk,fk)**, **SubscriptionID(pk,fk)**, **PackageID(pk,fk)**)

Measurement(**ProductID(pk,fk)**, **IngredientID(pk,fk)**, MeasurementAmount, MeasurementUnit)

Sourcing(**IngredientID(pk,fk)**, **SupplierID(pk,fk)**, SourcingDate, SourcingCost, SourcingQuantity, SourcingUnitOfMeaturement)

Step 6 - multi values attributes (MVA)

EmployeeQualification(**EmployeeID(pk,fk)**, **EmployeeQualification (pk)**)

Step 7 - associative entity

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FINAL SET OF TABLES

Visitor(**visitorID(pk)**, SubscriptionID(fk), VisitorName, VisitorDOB, VisitorEmail)

Booking(**VisitorID(pk,fk)**, **EventID(pk,fk)**, Date, NumberOfPeople)

Event(**EventID(pk)**, ExhibitID(fk), EmolyeeID(pk), EventName, EventDate, EventTime, EventCost, EventCapacity)

Demonstrator(**EventID(pk,fk)**, **EmployeeID(pk,fk)**)

Exhibit(**ExhibitID(pk,fk)**, ExhibitParent(fk), ExhibitDescription, ExhibitNumberOfItem)

Appointment(**AppointmentID (pk)**, EmployeeID(fk), AppointmentDate, AppointmentTime, ZoomMeeetingID)

Reservation(**ReservationID(pk)**, AppointmentID(fk), ExperienceID(fk),
ReservationEmployee, ReservationDate, Res-ExperienceDate, Res-ExperienceTime,
NumberOfPeople, DietaryPreferences)

Reservation_Employee(**ReservationID(pk,fk)**, **EmployeeID(pk,fk)**, Bookinghour)

Employee(**EmployeeID(pk)**, DepartmentID(fk), ManagerID (fk), EmployeeName,
EmployeeAdresss)

EmployeeQualification(**EmployeeID(pk,fk)**, **EmployeeQualification (pk)**)

Department(**DeparmentID(pk)**, EmployeeID(fk), DepartmentName)

Experience(**ExperienceID(pk)**, ExperienceName, ExperienceDuration, ExperienceCost)

Subscription(**SubscriptionID(pk)**, SubscriptionName, SubscriptionCost)

Package(**SubscriptionID(pk,fk)**, PackageID(pk), PackageName)

Product(**ProductID(pk)**, ProductName, ProductDescription)

Measurement(**ProductID(pk,fk)**, **IngredientID(pk,fk)**, MeasurementAmount,
MeasurementUnit)

Ingredient(**IngredientID(pk)**, IngredientName, IngredientAllergens)

Sourcing(**IngredientID(pk,fk)**, **SupplierID(pk,fk)**, SourcingDate, SourcingCost,
SourcingQuantity, SourcingUnitOfMeaturement)

Supplier(**SupplierID(pk)**)