COMP1350 Assignment

Group Number: 28

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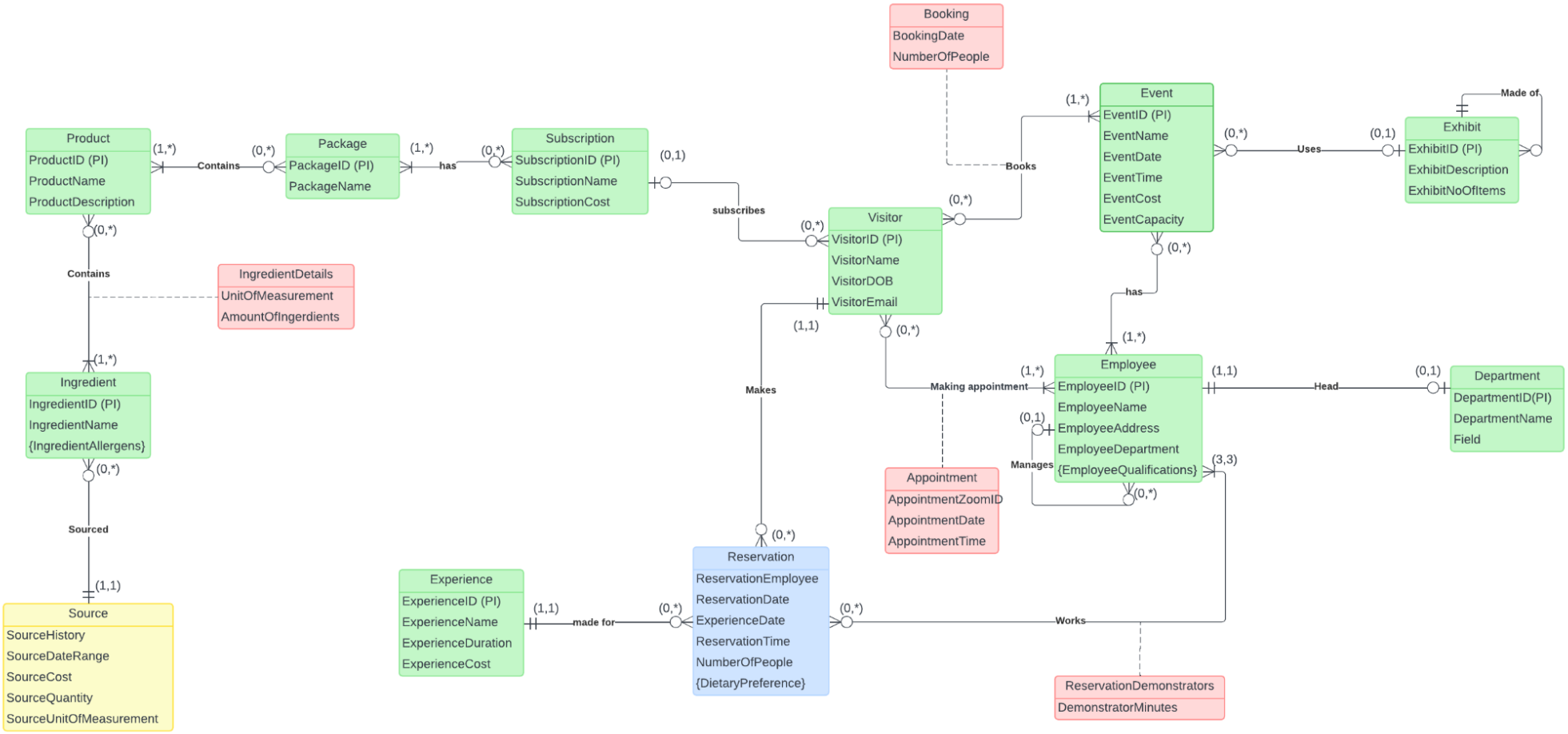
Solutions:

Task 1: [Link]



Assumptions, if any:

- // Clearly state your assumptions here (please ensure it does not contradict the case study)

Task 2:

// Type up the answers to your transformation & please don't forget to include your final tables here

Step 1: Strong

- Ingredient (IngredientID(pk), IngredientName)
- Product (ProductID(pk), ProductName, ProductDescription)
- Package (PackageID(pk), PackageName)
- Subscription (SubscriptionID(pk), SubscriptionName, SubscriptionCost)
- Visitor (VisitorID(pk), VisistorName, VisitorDOB, VisitorEmail)
- Event (EventID(pk), EventName, EventDate, EventTime, EventCost, EventCapacity)
- Exhibit (ExhibitID(pk), ExhibitDescription, ExhibitNoOfItems)
- Employee (EmployeeID(pk), EmployeeName, EmployeeAddress, EmployeeDepartment)
- Department (DepartmentID(pk), DepartmentName, DepartmentField)
- Experience (ExperienceID(pk), ExperienceName, ExperienceDuration, ExperienceCost)

Step 2: Weak

- Source (SourceHistory(pk), SourceDateRange, SourceCost, SourceQuantity, SourceUnitOfMeasurement, IngredientID(pk,fk))

Step 3: One to One

- Employee (EmployeeID(pk), EmployeeName, EmployeeAddress, EmployeeDepartment, DepartmentID(fk))

Step 4: One to Many

- Event (EventID(pk), EventName, EventDate, EventTime, EventCost, EventCapacity, ExhibitID(fk))
- EmployeeMangages (EmployeeID(pk, fk), ManagesID(pk, fk))
- ExhibitMadeOf(ExhibitID(pk, fk), MadeOfID(pk, fk))
- Visitor (VisitorID(pk), VisistorName, VisitorDOB, VisitorEmail, SubscriptionID(fk))
- Ingredient (IngredientID(pk), IngredientName, Source, SubscriptionID(pk))

Step 5: Many to Many

- EmployeeHasEvent(EmployeeID(pk, fk), EventID(pk, fk))
- VisitorMakingAppointmentEmployee(VisitorID(pk, fk), EmployeeID(pk, fk) AppointmentZoomID, AppointmentTime, AppointmentDate)
- VisitorBooksEvent(VisitorID(pk, fk), EventID(pk, fk), Booking Date, Number of People)
- SubscriptionHasPackage(SubscriptionID(pk, fk), PackageID(pk,fk))
- PackageContainsProduct(ProductID(pk, fk), ProductID(pk, fk))
- ProductContainsIngredients(ProductID(pk, fk), IngredientID(pk, fk), UnitOfMeasurement, AmountOfIngredients)

Step 6: MVA

- IngredientAllergens(IngredientID(pk, fk), Allergens(pk))

- EmployeeQualifications(EmployeeID(pk, fk), Qualifications(pk))

Step 7: Ternary

- Reservation(ReservationID(pk), ExperienceID(fk), VisitorID(fk), ReservationEmployee, ReservationDate, ExperienceDate, ReservationTime, NumberOfPeople))

Go Back to Step 5:

- EmployeeWorksReservation(EmployeeID(pk, fk), ReservationID(pk, fk), DemonstratorMinutes))

Go Back to Step 6:

- DietryPreferences(ReservationID(pk, fk), Preference(pk))

Final Table List

- IngredientAllergens(IngredientID(pk, fk), Allergens(pk))
- EmployeeQualifications(EmployeeID(pk, fk), Qualifications(pk))
- Reservation(ReservationID(pk), ExperienceID(fk), VisitorID(fk), ReservationEmployee, ReservationDate, ExperienceDate, ReservationTime, NumberOfPeople))
- EmployeeWorksReservation(EmployeeID(pk, fk), ReservationID(pk, fk), DemonstratorMinutes))
- DietryPreferences(ReservationID(pk, fk), Preference(pk))
- EmployeeHasEvent(EmployeeID(pk, fk), EventID(pk, fk))
- VisitorMakingAppointmentEmployee(VisitorID(pk, fk), EmployeeID(pk, fk) AppointmentZoomID, AppointmentTime, AppointmentDate)
- VisitorBooksEvent(VisitorID(pk, fk), EventID(pk, fk), Booking Date, Number of People)
- SubscriptionHasPackage(SubscriptionID(pk, fk), PackageID(pk,fk))
- PackageContainsProduct(ProductID(pk, fk), ProductID(pk, fk))
- ProductContainsIngredients(ProductID(pk, fk), IngredientID(pk, fk), UnitOfMeasurement, AmountOfIngredients)
- Ingredient (IngredientID(pk), IngredientName)
- Product (ProductID(pk), ProductName, ProductDescription)
- Package (PackageID(pk), PackageName)
- Subscription (SubscriptionID(pk), SubscriptionName, SubscriptionCost)
- Exhibit (ExhibitID(pk), ExhibitDescription, ExhibitNoOfItems)
- Department (DepartmentID(pk), DepartmentName, DepartmentField)
- Experience (ExperienceID(pk), ExperienceName, ExperienceDuration, ExperienceCost)
- Source (SourceHistory(pk), SourceDateRange, SourceCost, SourceQuantity, SourceUnitOfMeasurement, IngredientID(pk,fk))
- Employee (EmployeeID(pk), EmployeeName, EmployeeAddress, EmployeeDepartment, DepartmentID(fk))
- Event (EventID(pk), EventName, EventDate, EventTime, EventCost, EventCapacity, ExhibitID(fk))
- EmployeeMangages (EmployeeID(pk, fk), ManagesID(pk, fk))
- ExhibitMadeOf(ExhibitID(pk, fk), MadeOfID(pk, fk))
- Visitor (VisitorID(pk), VisistorName, VisitorDOB, VisitorEmail, SubscriptionID(fk))
- Ingredient (IngredientID(pk), IngredientName, Source, SubscriptionID(pk))