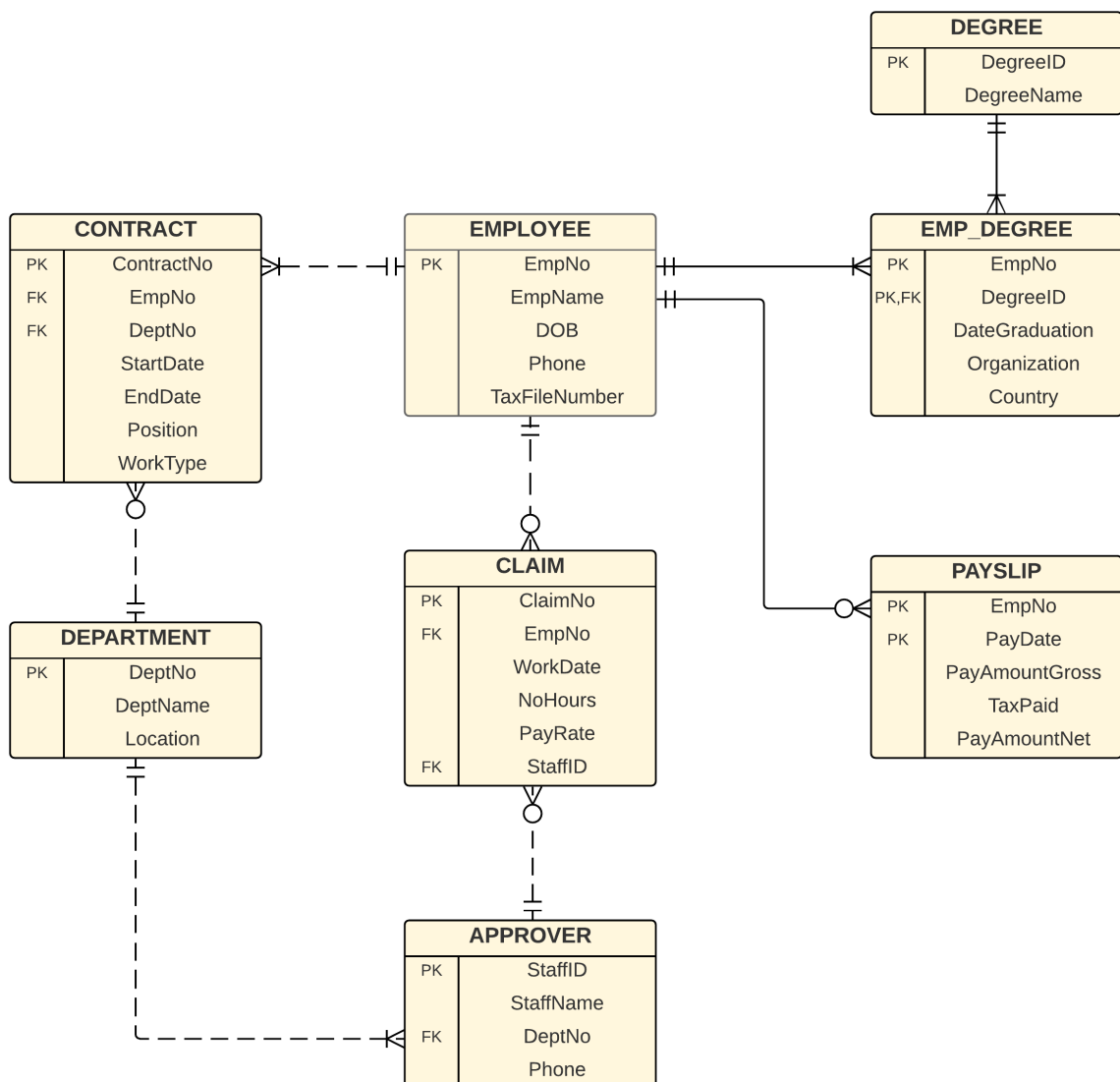


Lecture 5 Activity**Sessional Jobs Case Study**

Monash University employs its students to do various jobs, such as tutoring, programming, etc. These jobs are called sessional jobs. For each sessional job, students need to sign a contract. For example, to do tutoring (one or more units), the student will sign a contract with Monash for one semester.

These sessional workers (e.g. sessional tutors) need to claim their work hours every week. This claim will need to be approved by a designated person in the faculty. Every fortnight, the sessional workers will get their pay.

The operational database, which keeps track of this system, is shown by the following E/R diagram.



You are required to build a data warehouse to analyse the following:

- The total number of contracts made every year.
- The total payment made to each employee in 2020.
- The yearly number of contracts made in each department.

Question:

- Draw the star schema for this system.
- Write the SQL queries to create the fact and dimension tables.

THE END