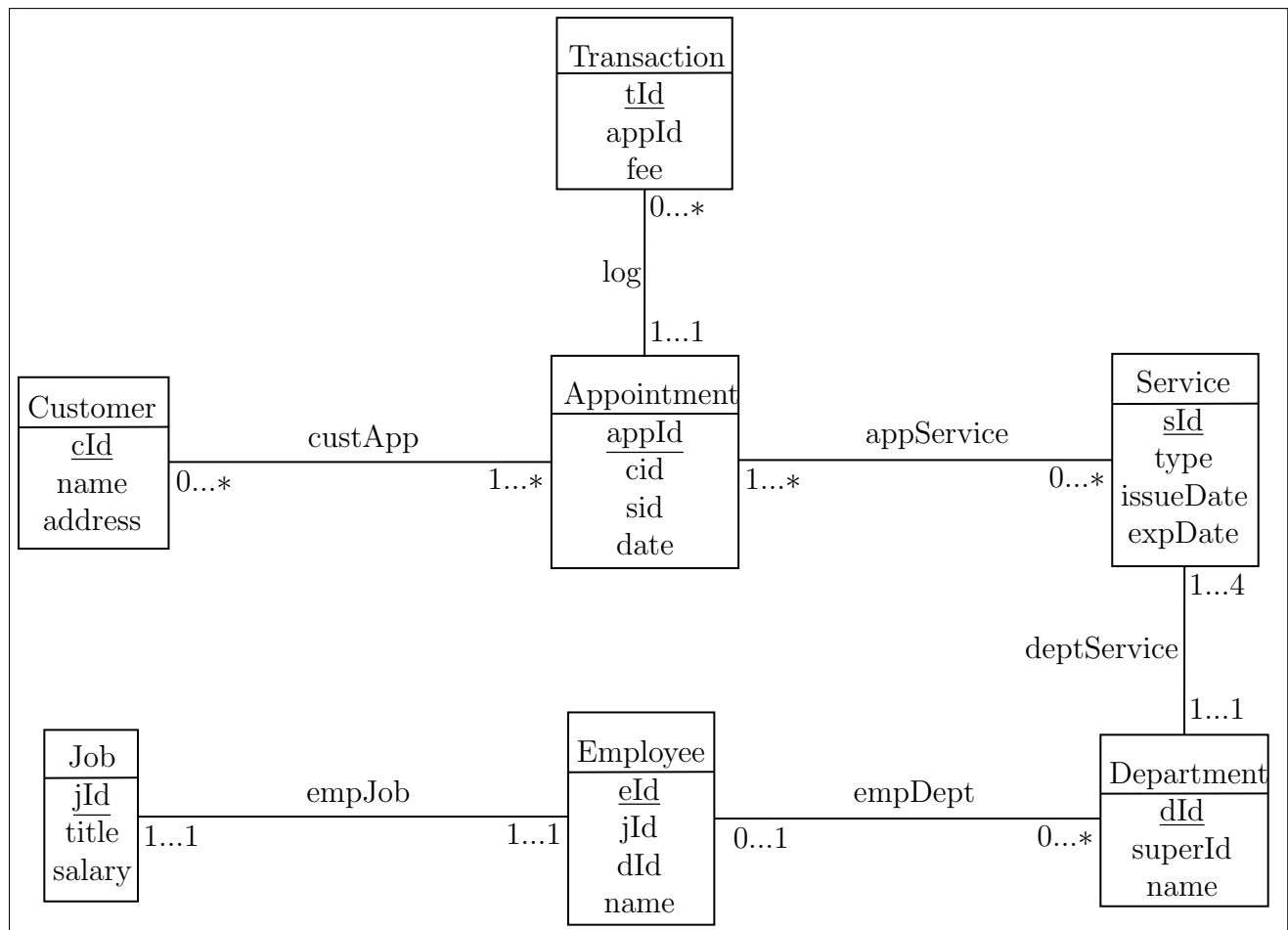


Program #4: Database Design and Implementation

Due Date: December 6th, 2021, at the beginning of class

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1 Conceptual Database Design



2 Logical database design

Customer

<u>cust_id</u>	first_name	last_name
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Appointment

<u>app_id</u>	cust_id	service_id	app_date	success
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Xact

<u>xact_id</u>	app_id	fee
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Service

<u>service_id</u>	name	fee	years_valid
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Document

<u>did</u>	service_id	cust_id	issue_date	expiration_date
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Job

<u>jid</u>	title	salary
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Employee

<u>eid</u>	jid	did	first_name	last_name
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Department

<u>did</u>	name
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3 Normalization analysis

4 Query description

```
SELECT salary
FROM Job, Employee
WHERE Job.jid = Employee.jid
AND Employee.first_name = '%s'
AND Employee.last_name = '%s'
```

Our self-designed query answers the question: “What is the salary of a given Employee”. Given the first and last name from the user and by performing a join on the Employee and Job relations, we are able to determine the answer to this question. The utility of the query allows users to get insight into the people that work at the DMV.