



Practice Questions - Week 2

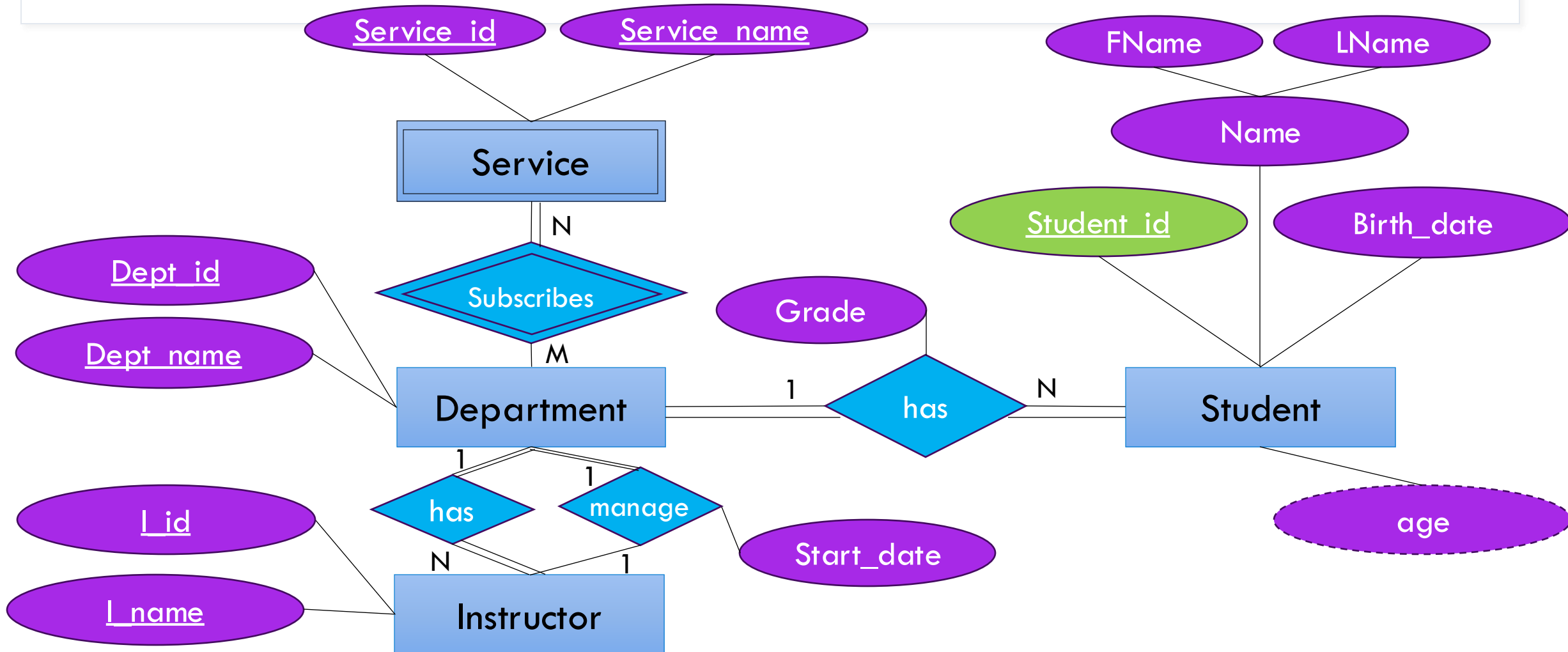
By Vishwa Patel



Contents

- Draw an ER Diagram to find the accurate table structure for university ER model designed in class last week
- Practice creating a table called “employees” to store employee information.

ER MODEL



ER DIAGRAM

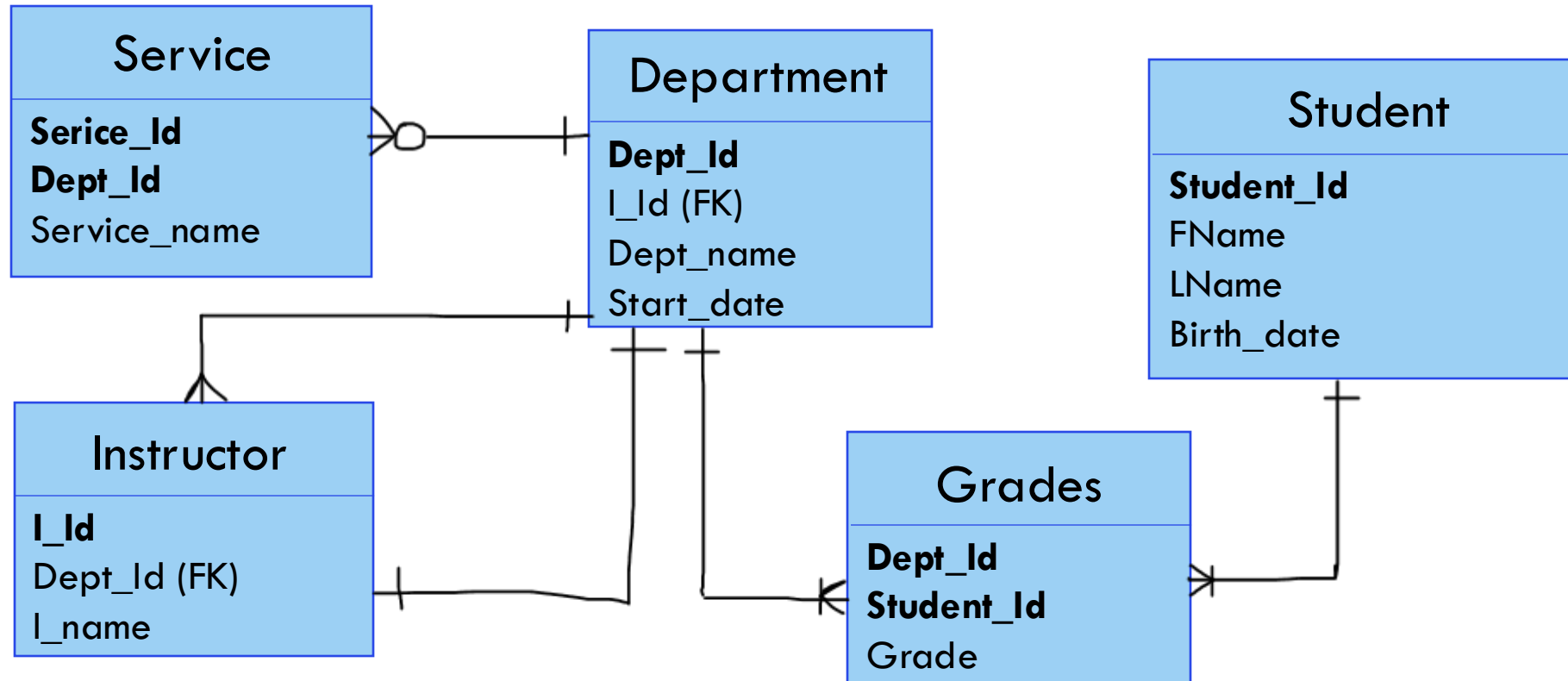


TABLE STRUCTURE

Student	<u>Student_Id</u>	FName	LName	Birth_date
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Department	<u>Dept_Id</u>	I_Id	Dept_name	Start_date
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Instructor	<u>I_Id</u>	Dept_Id	Exam_name
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Grades	<u>Dept_Id</u>	<u>Student_Id</u>	Grade
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Service	<u>Service_Id</u>	<u>Dept_Id</u>	Service_name
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CREATE TABLE

id	firstname	lastname	email	phone	salary	joining_date
1	Mark	Hart	mark.h@abc.com	9909099890	60000	1998-09-01
2	Joseph	Judge	joseph.j@abc.com	9876789876	80000	2014-06-31
3	Bill	White	bill.w@abc.com	7878790988	90000	2000-07-24
4	John	Wick	john.w@abc.com	7383662987	67000	1999-12-01

Note: id should be autoincrementing, salary should be 10000 by default and apply NOT NULL in the table appropriately where needed.

CREATE COMMAND

```
CREATE TABLE employees (  
    id INTEGER PRIMARY KEY AUTOINCREMENT,  
    firstname varchar(20) NOT NULL,  
    lastname varchar(20) NOT NULL,  
    email varchar(25) NOT NULL UNIQUE,  
    phone varchar(25) UNIQUE,  
    salary INTEGER DEFAULT 10000,  
    joining_date DATE NOT NULL  
);
```

INSERT COMMANDS

```
INSERT INTO employees (firstname, lastname, email, phone, salary, joining_date)
VALUES ('Mark', 'Hart', 'mark.h@abc.com', '9909099890', 60000, '1998-09-01');
```

```
INSERT INTO employees (firstname, lastname, email, phone, salary, joining_date)
VALUES ('Joseph', 'Judge', 'joseph.j@abc.com', '9876789876', 80000, '2014-06-30');
```

```
INSERT INTO employees (firstname, lastname, email, phone, salary, joining_date)
VALUES ('Bill', 'White', 'bill.w@abc.com', '7878790988', 90000, '2000-07-24');
```

```
INSERT INTO employees (firstname, lastname, email, phone, salary, joining_date)
VALUES ('John', 'Wick', 'john.w@abc.com', '7383662987', 67000, '1999-12-01');
```