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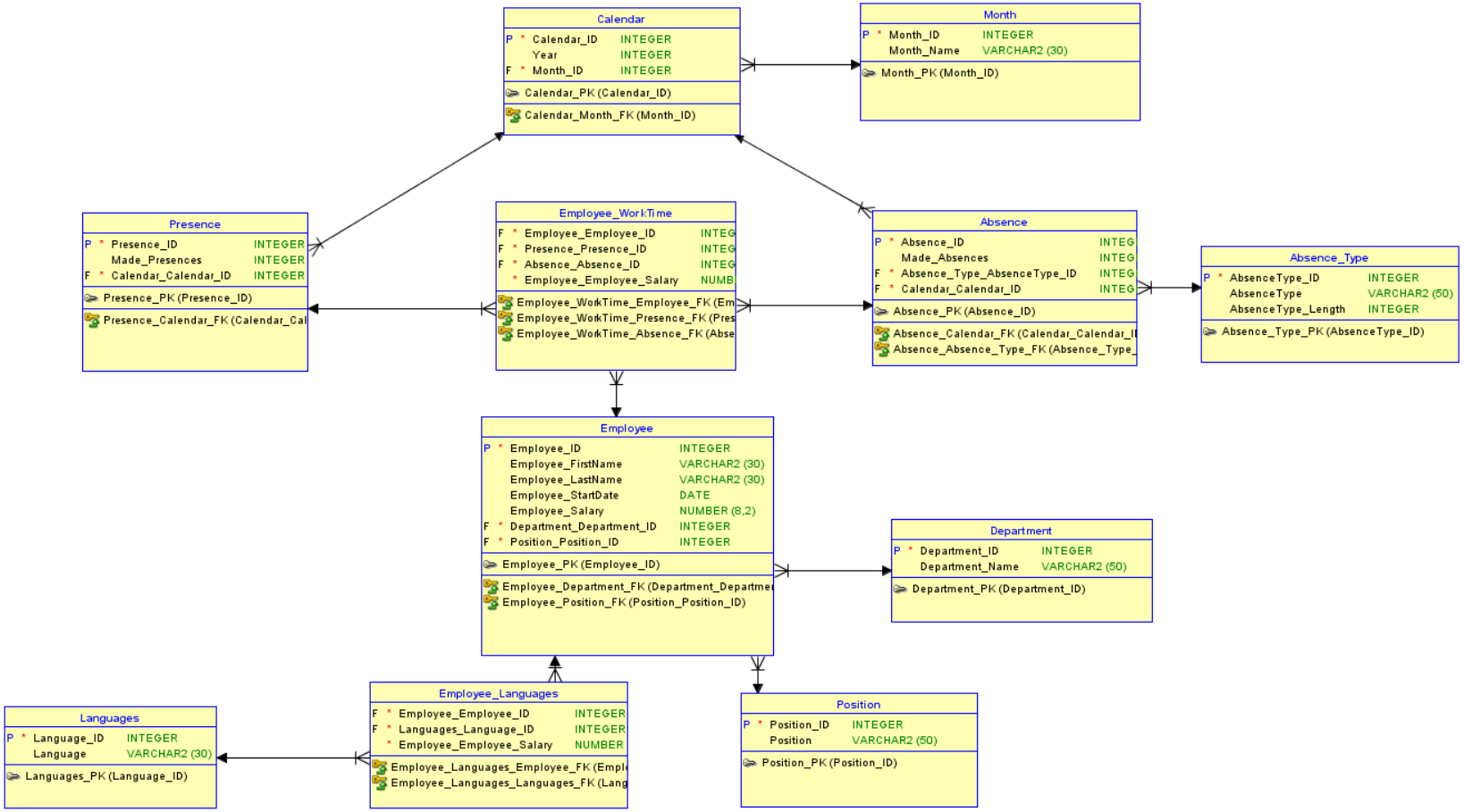
Практическа работа БД: DDL/DML команди



```
CREATE TABLE employee (
emp_ID int NOT NULL,
emp_firstName varchar(50),
emp_lastName varchar(50),
emp_hireDate date,
emp_salary number(8,2),
pos_ID int NOT NULL,
dep_ID int NOT NULL,
PRIMARY KEY(emp_id)
);

CREATE TABLE position
(
pos_ID int NOT NULL,
pos_name varchar(50),
PRIMARY KEY(pos_ID)
);

CREATE TABLE department
(
dep_ID int NOT NULL,
dep_name varchar(50),
PRIMARY KEY(dep_ID)
);

CREATE TABLE month
(
month_ID int NOT NULL,
month_name varchar(10)
);
```

```
CREATE TABLE calendar
(
calendar_ID int NOT NULL,
calendar_year int,
month_ID int,
PRIMARY KEY(calendar_ID)
);

CREATE TABLE languages
(
lang_id int NOT NULL,
lang_languageName varchar(30),
PRIMARY KEY(lang_id)
);

CREATE TABLE employee_languages
(
lang_id int NOT NULL,
emp_id int NOT NULL
);

ALTER TABLE employee_languages
ADD CONSTRAINT  languages_lang_id
FOREIGN KEY (lang_id)
REFERENCES languages(lang_id);

ALTER TABLE employee_languages
ADD CONSTRAINT  employee_emp_id
FOREIGN KEY (emp_id)
REFERENCES employee(emp_id);
```

```
ALTER TABLE calendar
ADD CONSTRAINT calendar_month_FK
FOREIGN KEY (month_ID)
REFERENCES month(month_ID);

ALTER TABLE employee
ADD CONSTRAINT employee_position_FK
FOREIGN KEY (pos_id)
REFERENCES position(pos_id);

ALTER TABLE employee
ADD CONSTRAINT employee_department_FK
FOREIGN KEY (dep_ID)
REFERENCES department(dep_ID);

CREATE TABLE presence
(
presence_ID int NOT NULL,
total_PresenceDays int,
calendar_ID int,
PRIMARY KEY(presence_ID)
);

CREATE TABLE absence (
absence_ID int NOT NULL,
absenceType_ID int,
total_absenceDays int,
calendar_ID int,
PRIMARY KEY(absence_ID)
);
```

```
CREATE TABLE absence_type
(
absenceType_ID int NOT NULL,
absenceType varchar(50),
PRIMARY KEY(absenceType_ID)
);

CREATE TABLE employee_worktime
(
emp_ID int NOT NULL,
presence_ID int NOT NULL,
absence_ID int NOT NULL
);

ALTER TABLE presence
ADD CONSTRAINT calendar_id_FK
FOREIGN KEY (calendar_ID)
REFERENCES calendar(calendar_ID);

ALTER TABLE absence
ADD CONSTRAINT absence_absencetype_FK
FOREIGN KEY (absenceType_ID)
REFERENCES absence_type(absenceType_ID);

ALTER TABLE absence
ADD CONSTRAINT calendar_absenceid_FK
FOREIGN KEY (calendar_ID)
REFERENCES calendar(calendar_ID);
```

```
ALTER TABLE employee_worktime
ADD CONSTRAINT employee_id_FK
FOREIGN KEY (emp_ID)
REFERENCES employee(emp_ID);

ALTER TABLE employee_worktime
ADD CONSTRAINT presence_id_FK
FOREIGN KEY (presence_ID)
REFERENCES presence(presence_ID);

ALTER TABLE employee_worktime
ADD CONSTRAINT absence_id_FK
FOREIGN KEY (absence_ID)
REFERENCES absence(absence_ID);
```

ПРИМЕРНИ ДАННИ:

```
INSERT INTO absence_type(absenceType_ID, absenceType)
VALUES(1,'Sickness');
INSERT INTO absence_type(absenceType_ID, absenceType)
VALUES(2,'Holiday');
INSERT INTO absence_type(absenceType_ID, absenceType)
VALUES(3,'Maternity');

INSERT INTO absence
VALUES(1, 1, 5, 1);
INSERT INTO absence
VALUES(2, 2, 15, 2);
INSERT INTO absence
VALUES(3, 3, 20, 3);
```

```
INSERT INTO presence
VALUES(1, 19, 1);
INSERT INTO presence
VALUES(2, 20, 2);
INSERT INTO presence
VALUES(3, 21, 3);

INSERT INTO employee_languages
VALUES(1, 1);
INSERT INTO employee_languages
VALUES(1, 2);
INSERT INTO employee_languages
VALUES(1, 3);
INSERT INTO employee_languages
VALUES(2, 1);
INSERT INTO employee_languages
VALUES(2, 2);
INSERT INTO employee_languages
VALUES(3, 1);

INSERT INTO languages(lang_ID, lang_languageName)
VALUES(1,'Bulgarian');
INSERT INTO languages(lang_ID, lang_languageName)
VALUES(2,'English');
INSERT INTO languages(lang_ID, lang_languageName)
VALUES(3,'French');
```

```
INSERT INTO position
VALUES (1, 'Product Manager');
INSERT INTO position
VALUES (2, 'Junior Java Developer');
INSERT INTO position
VALUES (3, 'QA Engineer');
INSERT INTO position
VALUES (4, 'Android Developer');


INSERT INTO department
VALUES (1, 'IT');
INSERT INTO department
VALUES (2, 'Sales');
INSERT INTO department
VALUES (3, 'HR');
INSERT INTO department
VALUES (4, 'Marketing');

INSERT INTO employee
VALUES (1, 'Hristina', 'Georgieva', '25-NOV-2019', 5000, 3, 1);
INSERT INTO employee
VALUES (2, 'Celine', 'Kayar', '25-FEB-2020', 5000, 2, 1);
INSERT INTO employee
VALUES (3, 'Ivan', 'Ivanov', '25-FEB-2015', 1500, 1, 2);

INSERT INTO month
VALUES (1, 'January');
INSERT INTO month
VALUES (2, February);
INSERT INTO month
```

```
VALUES (3, March);
INSERT INTO month
VALUES (4, April);
INSERT INTO month
VALUES (5, May);
INSERT INTO month
VALUES (6, June);
INSERT INTO month
VALUES (7, July);
INSERT INTO month
VALUES (8, August);
INSERT INTO month
VALUES (9, September);
INSERT INTO month
VALUES (10, October);
INSERT INTO month
VALUES (11, November);
INSERT INTO month
VALUES (12, December);


INSERT INTO calendar
VALUES (1, 2020, 2);
INSERT INTO calendar
VALUES (2, 2019, 1);
INSERT INTO calendar
VALUES (3, 2021, 3);
```

```
INSERT INTO employee_worktime
VALUES(1, 1, 1);
INSERT INTO employee_worktime
VALUES(2, 2, 2);
INSERT INTO employee_worktime
VALUES(3, 3, 3);
```