https://bit.ly/3WZOKFJ

-- Alumnos

```
CREATE TABLE Alumnos (
 matricula varchar(10) NOT NULL,
 nombre varchar(25) DEFAULT NULL,
 paterno varchar(25) DEFAULT NULL,
 fnac date DEFAULT NULL,
 estatura decimal(10,2) DEFAULT NULL,
 PRIMARY KEY (matricula)
);
INSERT INTO modulo11. Alumnos VALUES ('100F', 'Omar', 'Mendoza', '1977-06-26', '1.74');
INSERT INTO modulo11. Alumnos VALUES ('1A', 'Juan', 'Lopez', '2001-01-01', '1.78');
INSERT INTO modulo11. Alumnos VALUES ('2A', 'Nadia', 'Perez', '2001-01-10', '1.56');
INSERT INTO modulo11.Alumnos VALUES ('3B', 'Perla Martha', 'Rios', '2001-01-20', '1.62');
INSERT INTO modulo11. Alumnos VALUES ('4A', 'Carlos', 'Madero', '2001-01-01', '1.68');
INSERT INTO modulo11. Alumnos VALUES ('5A', 'Javier', 'Amaro', '2001-02-10', '1.75');
INSERT INTO modulo11.Alumnos VALUES ('6C', 'Jesus', 'Garcia', '2001-03-20', '1.65');
INSERT INTO modulo11. Alumnos VALUES ('7B', 'Gema', null, '2001-03-20', '1.53');
```

-- Acceso por campos

DROP TABLE if exists EMPLOYEE:

CREATE TABLE Employee (id INTEGER NOT NULL, name VARCHAR(255), salary BIGINT, PRIMARY KEY (id));

```
INSERT INTO Employee VALUES ('100', 'Oscar', '1000'); INSERT INTO Employee VALUES ('200', 'Paula', '2000'); INSERT INTO Employee VALUES ('300', 'Nadia', '3000');
```

-- Acceso por Schema

```
CREATE DATABASE modulo11RH;
CREATE TABLE modulo11RH.RH_Employee (id INTEGER NOT NULL, name
VARCHAR(255), salary BIGINT, PRIMARY KEY (id));
```

```
INSERT INTO modulo11RH.RH_Employee VALUES ('1', 'Oscar', '1000'); INSERT INTO modulo11RH.RH_Employee VALUES ('2', 'Paula', '2000'); INSERT INTO modulo11RH.RH Employee VALUES ('3', 'Nadia', '3000');
```

-- Mixed Access

DROP TABLE if exists EMPLOYEE;

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL, PHONE VARCHAR(255), NAME VARCHAR(255), SALARY BIGINT, PRIMARY KEY (ID));

```
INSERT INTO Employee VALUES ('100', '667788', 'Oscar', '1000'); INSERT INTO Employee VALUES ('200', '778899', 'Paula', '2000'); INSERT INTO Employee VALUES ('300', '998877', 'Nadia', '3000');
```

-- CUSTOM TABLE SCHEMA

CREATE DATABASE if NOT exists modulo11;

DROP TABLE if exists modulo11.EMP;

CREATE TABLE modulo11.EMP (EMP_ID INTEGER NOT NULL, NAME VARCHAR(255), SAL BIGINT, COMM VARCHAR(255), PRIMARY KEY (EMP_ID));

INSERT INTO modulo11.EMP (EMP_ID, NAME, SAL, COMM) VALUES ('500', 'OLGA', '1000', 'TELECOM');

INSERT INTO modulo11.EMP (EMP_ID, NAME, SAL, COMM) VALUES ('600', 'RICARDO', '2000', 'DIRECCION');

INSERT INTO modulo11.EMP (EMP_ID, NAME, SAL, COMM) VALUES ('700', 'CARLA', '3000', 'SISTEMAS');

select * from modulo11.emp;

-- ENUMERATE

DROP TABLE if exists EMPLOYEE:

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL, NAME VARCHAR(255), SALARY BIGINT, TYPE INTEGER, PREVIOUSTYPE VARCHAR(64), PRIMARY KEY (ID));

INSERT INTO Employee (ID, NAME, SALARY, TYPE, PREVIOUSTYPE) VALUES ('100', '0SCAR', '1000', '0', 'FULL TIME EMPLOYEE');

INSERT INTO Employee (ID, NAME, SALARY, TYPE, PREVIOUSTYPE) VALUES ('200', 'PAULA', '2000', '1', 'PART_TIME_EMPLOYEE');

INSERT INTO Employee (ID, NAME, SALARY, TYPE, PREVIOUSTYPE) VALUES ('300', 'NADIA', '3000', '2', 'CONTRACT EMPLOYEE');

INSERT INTO Employee (ID, NAME, SALARY, TYPE, PREVIOUSTYPE) VALUES ('400', 'RAUL', '4000', '2', 'CONTRACT_EMPLOYEE'); select * from EMPLOYEE;

-- TEMPORAL

DROP TABLE if exists EMPLOYEE;

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL, NAME VARCHAR(255), SALARY BIGINT, DOB DATE, S_DATE DATE, PRIMARY KEY (ID));

INSERT INTO Employee (ID, NAME, SALARY, DOB, S_DATE) VALUES ('100', 'OSCAR', '1000', '2000-10-14', '2022-01-02');

INSERT INTO Employee (ID, NAME, SALARY, DOB, S_DATE) VALUES ('200', 'PAULA', '2000', '2001-04-09', '2022-01-02');

INSERT INTO Employee (ID, NAME, SALARY, DOB, S_DATE) VALUES ('300', 'NADIA', '3000', '1998-07-08', '2022-01-02');

select * from EMPLOYEE;

-- auto increment IDENTITY

select * from Employee;

DROP TABLE if exists EMPLOYEE;

CREATE TABLE Employee (id INTEGER NOT NULL auto_increment, name VARCHAR(255), salary BIGINT, PRIMARY KEY (id));

INSERT INTO Employee VALUES ('100', 'Oscar', '1000');

INSERT INTO Employee VALUES ('200', 'Paula', '2000');

INSERT INTO Employee VALUES ('300', 'Nadia', '3000');

-- GenerationType.SECUENCE

DROP TABLE if exists EMPLOYEE;

DROP TABLE if exists SEQUENCE;

CREATE TABLE SEQUENCE (SEQ_NAME VARCHAR(64), SEQ_COUNT INTEGER); CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL, NAME VARCHAR(255), SALARY BIGINT, PRIMARY KEY (ID));

INSERT INTO SEQUENCE (SEQ_NAME, SEQ_COUNT) VALUES('SEQ_EMP',1);

INSERT INTO Employee VALUES ('100', 'Oscar', '1000');

```
INSERT INTO Employee VALUES ('200', 'Paula', '2000'); INSERT INTO Employee VALUES ('300', 'Nadia', '3000'); select * from SEQUENCE;
```

-- GenerationType.TABLE

DROP TABLE IF EXISTS EMPLOYEE; DROP TABLE IF EXISTS ID_GEN;

CREATE TABLE Employee (id INTEGER NOT NULL, name VARCHAR(255), salary BIGINT, PRIMARY KEY (id));

CREATE TABLE ID_GEN (GEN_NAME VARCHAR(80), GEN_VAL INTEGER, PRIMARY KEY (GEN_NAME));

```
INSERT INTO Employee VALUES ('100', 'Oscar', '1000'); INSERT INTO Employee VALUES ('200', 'Paula', '2000'); INSERT INTO Employee VALUES ('300', 'Nadia', '3000');
```

INSERT INTO ID GEN (GEN NAME, GEN VAL) VALUES ('Emp Gen', 0);

select * from Employee;
select * from ID_GEN;

-- One to One

DROP TABLE IF EXISTS EMPLOYEE; DROP TABLE IF EXISTS ADDRESS; DROP TABLE IF EXISTS ID_GEN;

CREATE TABLE ADDRESS (ID INTEGER NOT NULL, CITY VARCHAR(255), STATE VARCHAR(255), STREET VARCHAR(255), ZIP VARCHAR(255), PRIMARY KEY (ID)); CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL, NAME VARCHAR(255), SALARY BIGINT, ADDRESS_ID INTEGER,

CONSTRAINT ADDRESS_FK FOREIGN KEY (ADDRESS_ID)
REFERENCES ADDRESS (ID), PRIMARY KEY (ID));
CREATE TABLE ID_GEN (GEN_NAME VARCHAR(80), GEN_VAL INTEGER, PRIMARY KEY (GEN_NAME));

INSERT INTO ID_GEN (GEN_NAME, GEN_VAL) VALUES ('Emp_Gen', 0); INSERT INTO ID_GEN (GEN_NAME, GEN_VAL) VALUES ('Addr_Gen', 10000);

```
select * from Employee;
select * from ADDRESS;
select * from ID GEN;
```

-- ManyToOne

DROP TABLE IF EXISTS EMPLOYEE;
DROP TABLE IF EXISTS DEPARTMENT;

CREATE TABLE DEPARTMENT (ID INTEGER NOT NULL auto_increment, NAME VARCHAR(255), PRIMARY KEY (ID));

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL auto_increment,
NAME VARCHAR(255), SALARY BIGINT,
DEPARTMENT_ID INTEGER, PRIMARY KEY (ID),
CONSTRAINT DEPT_FK FOREIGN KEY (DEPARTMENT_ID)

REFERENCES DEPARTMENT (ID));

INSERT INTO DEPARTMENT (ID, NAME) VALUES ('1', 'TIC'),('2', 'MKT'),('3', 'VENTAS'),('4', 'COMPRAS'),('5', 'SEGURIDAD');

INSERT INTO Employee VALUES ('100', 'OSCAR', '1000', '1'),('200', 'PAULA', '2000', '1'),('300', 'NADIA', '3000', '3');

select * from EMPLOYEE;
select * from DEPARTMENT;

-- JoinColumn

DROP TABLE IF EXISTS EMPLOYEE;
DROP TABLE IF EXISTS DEPARTMENT;

CREATE TABLE DEPARTMENT (ID INTEGER NOT NULL auto_increment, NAME VARCHAR(255), PRIMARY KEY (ID));
CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL auto_increment, NAME VARCHAR(255), SALARY BIGINT, DEPT ID INTEGER, PRIMARY KEY (ID));

INSERT INTO DEPARTMENT (ID, NAME) VALUES ('1', 'TIC'),('2', 'MKT'),('3', 'VENTAS'),('4', 'COMPRAS'),('5', 'SEGURIDAD');

INSERT INTO Employee VALUES ('100', 'OSCAR', '1000', '1'),('200', 'PAULA', '2000', '1'),('300', 'NADIA', '3000', '3');

select * from EMPLOYEE;
select * from DEPARTMENT;

-- oneToOneUnidirectional

DROP TABLE IF EXISTS EMPLOYEE;
DROP TABLE IF EXISTS PARKING SPACE;

CREATE TABLE PARKING_SPACE (ID INTEGER NOT NULL auto_increment, LOT INTEGER, LOCATION VARCHAR(255), PRIMARY KEY (ID));

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL auto_increment,

NAME VARCHAR(255), SALARY BIGINT,

PSPACE_ID INTEGER, PRIMARY KEY (ID),

CONSTRAINT PSPACE_FK FOREIGN KEY (PSPACE_ID) REFERENCES PARKING_SPACE(ID));

INSERT INTO PARKING_SPACE VALUES ('1', 100, 'ME100'),('2', 200, 'MKT200'),('3', 300, 'VTA300'),('4', 400, 'COM400'),('5', 500, 'SEG500');

INSERT INTO Employee VALUES ('100', 'OSCAR', '1000', '1'),('200', 'PAULA', '2000', '2'),('300', 'NADIA', '3000', '3');

select * from EMPLOYEE;
select * from PARKING SPACE;

-- oneToOnePkMapping

DROP TABLE IF EXISTS EMPLOYEE;
DROP TABLE IF EXISTS PARKING_SPACE;

CREATE TABLE PARKING_SPACE (ID INTEGER NOT NULL, LOT INTEGER, LOCATION VARCHAR(255), PRIMARY KEY (ID));

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL, NAME VARCHAR(255), SALARY BIGINT, PRIMARY KEY (ID));

INSERT INTO PARKING_SPACE VALUES ('1', 100, 'ME100'),

('2', 200, 'MKT200'),

('3', 300, 'VTA300'),

('4', 400, 'COM400'),

('5', 500, 'SEG500');

INSERT INTO Employee VALUES ('1', 'OSCAR', '1000'),

('2', 'PAULA', '2000'),

('3', 'NADIA', '3000');

select * from EMPLOYEE;

select * from PARKING SPACE;

-- manyToManyJoinTable

DROP TABLE IF EXISTS EMPLOYEE_PROJECT;

DROP TABLE IF EXISTS EMP_PROJ;

DROP TABLE IF EXISTS EMPLOYEE;

DROP TABLE IF EXISTS PROJECT;

CREATE TABLE PROJECT (ID INTEGER NOT NULL auto_increment,

NAME VARCHAR(255), PRIMARY KEY (ID));

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL auto_increment,

NAME VARCHAR(255), SALARY BIGINT, PRIMARY KEY (ID));

CREATE TABLE EMP_PROJ (PROJ_ID INTEGER NOT NULL, EMP_ID INTEGER NOT NULL,

CONSTRAINT PROJ_FK FOREIGN KEY (PROJ_ID) REFERENCES PROJECT (ID),

CONSTRAINT EMP_FK FOREIGN KEY (EMP_ID) REFERENCES EMPLOYEE (ID),

PRIMARY KEY (PROJ ID, EMP ID));

INSERT INTO PROJECT VALUES ('1', 'CEU'),('2', 'RSU'),('3', 'BDU'),('4', 'CRM'),('5', 'ERP');

INSERT INTO Employee VALUES ('100', 'OSCAR', '1000'),('200', 'PAULA', '2000'),('300', 'NADIA', '3000'), ('400', 'MARCO', '4000');

INSERT INTO EMP_PROJ VALUES (1, 200), (1, 300), (1, 400), (2, 100), (2, 400), (3, 300), (4, 300), (4, 200), (4, 400), (4, 100), (5, 300), (5, 100);

select * from EMPLOYEE;

select * from PROJECT;

select * from EMP PROJ;

-- embeddedObjects

DROP TABLE IF EXISTS EMPLOYEE_PROJECT;

DROP TABLE IF EXISTS EMP PROJ;

DROP TABLE IF EXISTS PROJECT;

DROP TABLE IF EXISTS EMPLOYEE;

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL AUTO_INCREMENT, NAME VARCHAR(255), SALARY BIGINT, STREET VARCHAR(255), CITY VARCHAR(255), STATE VARCHAR(255), ZIP_CODE VARCHAR(255), PRIMARY KEY (ID));

DROP TABLE IF EXISTS COMPANY;

CREATE TABLE COMPANY (ID INTEGER NOT NULL, STREET VARCHAR(255), CITY VARCHAR(255), STATE VARCHAR(255), ZIP_CODE VARCHAR(255), PRIMARY KEY (ID));

INSERT INTO Employee VALUES ('100', 'OSCAR', '1000', 'RANCHO SECO S/N', 'CDMX', 'CDMX', '56200'),('200', 'PAULA', '2000', 'AV. TECNOLOGICO 100', 'MORELIA', 'MICH', '58000'),('300', 'NADIA', '3000', 'AV. UNIVERSIDAD 3000', 'GUADALAJARA', 'JAL', '44100'), ('400', 'MARCO', '4000', 'PASEO ALTO 456', 'MONTERREY', 'NL', '64000');

select * from Employee;

-- sharingEmbeddedObjects

DROP TABLE IF EXISTS EMPLOYEE:

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL AUTO_INCREMENT, NAME VARCHAR(255), SALARY BIGINT, STREET VARCHAR(255), CITY VARCHAR(255), PROVINCE VARCHAR(255), POSTAL_CODE VARCHAR(255), PRIMARY KEY (ID));

DROP TABLE IF EXISTS COMPANY;

CREATE TABLE COMPANY (ID INTEGER NOT NULL AUTO_INCREMENT, NAME VARCHAR(255), STREET VARCHAR(255), CITY VARCHAR(255), STATE VARCHAR(255), ZIP_CODE VARCHAR(255), PRIMARY KEY (ID));

INSERT INTO Employee VALUES ('100', 'OSCAR', '1000', 'RANCHO SECO S/N', 'CDMX', 'CDMX', '56200'),('200', 'PAULA', '2000', 'AV. TECNOLOGICO 100', 'MORELIA', 'MICH', '58000'),('300', 'NADIA', '3000', 'AV. UNIVERSIDAD 3000', 'GUADALAJARA', 'JAL', '44100'), ('400', 'MARCO', '4000', 'PASEO ALTO 456', 'MONTERREY', 'NL', '64000');

INSERT INTO COMPANY VALUES ('1', 'ABC', 'RANCHO SECO S/N', 'CDMX', 'CDMX', '56200'),('2', 'IBD', 'AV. TECNOLOGICO 100', 'MORELIA', 'MICH', '58000'),('3', 'ORC', 'AV. UNIVERSIDAD 3000', 'GUADALAJARA', 'JAL', '44100');

select * from Employee;
select * from COMPANY;

-- 01 elementCollection

DROP TABLE IF EXISTS Employee VACATIONBOOKINGS;

DROP TABLE IF EXISTS Employee NICKNAMES;

DROP TABLE IF EXISTS EMPLOYEE;

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL auto_increment, NAME VARCHAR(255), SALARY BIGINT, PRIMARY KEY (ID));

CREATE TABLE Employee_VACATIONBOOKINGS (Employee_ID INTEGER NOT NULL, STARTDATE VARCHAR(255), DAYS INTEGER);

CREATE TABLE Employee_NICKNAMES (Employee_ID INTEGER NOT NULL, NICKNAMES VARCHAR(255));

INSERT INTO EMPLOYEE VALUES ('100', 'OSCAR', '1000'),('200', 'PAULA', '2000'),('300', 'NADIA', '3000'), ('400', 'MARCO', '4000');

INSERT INTO Employee_VACATIONBOOKINGS VALUES (100, '2020-05-01', 5), (100,

'2021-05-15', 7), (100, '2022-04-01', 8), (200, '2020-03-01', 3), (200, '2021-05-15', 4), (300, '2020-05-01', 8), (300, '2021-06-15', 7), (300, '2022-01-01', 7);

INSERT INTO Employee_NICKNAMES VALUES ('100', 'OSCARito'),('200', 'PAULita'),('100', 'El oscar'), ('400', 'MARCOS');

select * from Employee VACATIONBOOKINGS;

select * from Employee NICKNAMES;

select * from EMPLOYEE;

-- 02-overrideCollectionTableColumn

DROP TABLE IF EXISTS Employee_VACATION;

DROP TABLE IF EXISTS Employee_NICKNAMES;

DROP TABLE IF EXISTS EMPLOYEE;

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL auto_increment, NAME

VARCHAR(255), SALARY BIGINT, PRIMARY KEY (ID));

CREATE TABLE Employee_VACATION (Employee_ID INTEGER NOT NULL, STARTDATE VARCHAR(255), DAYS_ABS INTEGER);

CREATE TABLE Employee_NICKNAMES (Employee_ID INTEGER NOT NULL, NICKNAMES VARCHAR(255));

INSERT INTO EMPLOYEE VALUES ('100', 'OSCAR', '1000'),('200', 'PAULA', '2000'),('300', 'NADIA', '3000'), ('400', 'MARCO', '4000');

INSERT INTO Employee_VACATION VALUES (100, '2020-05-01', 5), (100, '2021-05-15', 7), (100, '2022-04-01', 8), (200, '2020-03-01', 3), (200, '2021-05-15', 4), (300, '2020-05-01', 8), (300, '2021-06-15', 7), (300, '2022-01-01', 7);

INSERT INTO Employee_NICKNAMES VALUES ('100', 'OSCARito'),('200', 'PAULita'),('100', 'El oscar'), ('400', 'MARCOS');

select * from Employee_VACATION;

select * from Employee NICKNAMES;

select * from EMPLOYEE;

-- 03-tablePerConcreteClass

DROP TABLE IF EXISTS CONTRACT EMP;

DROP TABLE IF EXISTS PT_EMP;

DROP TABLE IF EXISTS FT EMP;

DROP TABLE IF EXISTS EMPLOYEE:

CREATE TABLE EMPLOYEE (ID INTEGER NOT NULL, NAME VARCHAR(255), S_DATE DATE, PRIMARY KEY (ID));

CREATE TABLE FT_EMP (ID INTEGER NOT NULL, NAME VARCHAR(255), S_DATE DATE, VACATION INTEGER, MANAGER ID INTEGER,

SALARY BIGINT, PENSION BIGINT, MANAGER INTEGER, PRIMARY KEY (ID));

CREATE TABLE PT_EMP (ID INTEGER NOT NULL, NAME VARCHAR(255), S_DATE DATE, VACATION INTEGER, MANAGER ID INTEGER,

H_RATE FLOAT, MGR INTEGER, PRIMARY KEY (ID));

CREATE TABLE CONTRACT_EMP (ID INTEGER NOT NULL, FULLNAME VARCHAR(255), SDATE DATE, D_RATE INTEGER, TERM INTEGER, PRIMARY KEY (ID));

INSERT INTO CONTRACT_EMP (ID, FULLNAME, SDATE, D_RATE, TERM) VALUES (1, 'OSCAR', {d '2001-01-01'}, 500, 12);

INSERT INTO CONTRACT_EMP (ID, FULLNAME, SDATE, D_RATE, TERM) VALUES (2, 'PAULA', {d '2002-04-08'}, 600, 24);

INSERT INTO CONTRACT_EMP (ID, FULLNAME, SDATE, D_RATE, TERM) VALUES (3, 'NADIA', {d '2003-06-10'}, 700, 18);

INSERT INTO FT_EMP (ID, NAME, S_DATE, VACATION, SALARY, PENSION) VALUES (4, 'MARCO', {d '2004-07-01'}, 15, 55000, 100000);

INSERT INTO FT_EMP (ID, NAME, S_DATE, VACATION, SALARY, PENSION) VALUES (5, 'JUAN', {d '2003-09-09'}, 15, 59000, 200000);

INSERT INTO FT_EMP (ID, NAME, S_DATE, VACATION, SALARY, PENSION) VALUES (6, 'SAMANTA', {d '2000-03-12'}, 20, 60000, 450000);

INSERT INTO PT_EMP (ID, NAME, S_DATE, VACATION, H_RATE) VALUES (7, 'MARTHA', {d '2004-11-01'}, 15, 17.0);

INSERT INTO PT_EMP (ID, NAME, S_DATE, VACATION, H_RATE) VALUES (8, 'RAUL', {d '2005-12-05'}, 15, 16.0);

INSERT INTO PT_EMP (ID, NAME, S_DATE, VACATION, H_RATE) VALUES (9, 'JAZMIN', {d '2006-01-03'}, 10, 15.0);

```
select * from CONTRACT_EMP;
select * from PT_EMP;
select * from FT EMP;
```

-- 04-singleTableInheritance

DROP TABLE IF EXISTS EMP;

CREATE TABLE EMP (ID INTEGER NOT NULL, NAME VARCHAR(255), S_DATE DATE, D_RATE INTEGER, TERM INTEGER,

VACATION INTEGER, H_RATE FLOAT, SALARY BIGINT, PENSION BIGINT, EMP_TYPE VARCHAR(32),

PRIMARY KEY (ID));

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

VALUES (1, 'OSCAR', {d '2001-01-01'}, 500, 12, NULL, NULL, NULL, NULL, VContractEmployee');

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

 $\mbox{VALUES (2, 'PAULA', \{d '2002-04-08'\}, 600, 24, NULL, NULL,$

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

VALUES (3, 'NADIA', {d '2003-06-10'}, 700, 18, NULL, NULL, NULL, NULL, 'ContractEmployee');

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

VALUES (4, 'MARCO', {d '2004-07-01'}, NULL, NULL, 15, NULL, 55000, 100000, 'FTEmp');

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

VALUES (5, 'JUAN', {d '2003-09-09'}, NULL, NULL, 15, NULL, 59000,

200000, 'FTEmp'); INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY,

PENSION, EMP_TYPE)

VALUES (6, 'SAMANTA', {d '2000-03-12'}, NULL, NULL, 20, NULL, 60000, 450000, 'FTEmp');

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

VALUES (7, 'MARTHA', {d '2004-11-01'}, NULL, NULL, 15, 17.0, NULL,

NULL, 'PTEmp');

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

VALUES (8, 'RAUL', {d '2005-12-05'}, NULL, NULL, 15, 16.0, NULL, NULL, 'PTEmp');

INSERT INTO EMP (ID, NAME, S_DATE, D_RATE, TERM, VACATION, H_RATE, SALARY, PENSION, EMP_TYPE)

```
VALUES (9, 'JAZMIN', {d '2006-01-03'}, NULL, NULL, 10, 15.0, NULL, NULL, 'PTEmp');
select * from EMP;
```

-- 05 -joinedTableInheritance

DROP TABLE IF EXISTS CONTRACT_EMP; DROP TABLE IF EXISTS PT_EMP; DROP TABLE IF EXISTS FT_EMP; DROP TABLE IF EXISTS EMP;

CREATE TABLE EMP (ID INTEGER NOT NULL, NAME VARCHAR(255), S_DATE DATE, EMP_TYPE INTEGER, PRIMARY KEY (ID));

CREATE TABLE FT_EMP (ID INTEGER NOT NULL, VACATION INTEGER, SALARY BIGINT, PENSION BIGINT, PRIMARY KEY (ID),

CONSTRAINT FT_EMP_FK FOREIGN KEY (ID) REFERENCES EMP(ID)); CREATE TABLE PT_EMP (ID INTEGER NOT NULL, VACATION INTEGER, H_RATE FLOAT, PRIMARY KEY (ID),

CONSTRAINT PT_EMP_FK FOREIGN KEY (ID) REFERENCES EMP(ID)); CREATE TABLE CONTRACT_EMP (ID INTEGER NOT NULL, D_RATE INTEGER, TERM INTEGER, PRIMARY KEY (ID),

 ${\tt CONSTRAINT\ CONTRACT_EMP_FK\ FOREIGN\ KEY\ (ID)\ REFERENCES} \\ {\tt EMP(ID));}$

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (1, 'OSCAR', $\{d'2001-01-01'\}$, 1);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (2, 'PAULA', {d '2002-04-08'}, 1);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (3, 'NADIA', {d '2003-06-10'}, 1);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (4, 'MARCO', {d '2004-07-01'}, 2);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (5, 'JUAN', {d '2003-09-09'}, 2);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (6, 'SAMANTA', {d '2000-03-12'}, 2);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (7, 'MARTHA', {d '2004-11-01'}, 3);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (8, 'RAUL', {d '2005-12-05'}, 3);

INSERT INTO EMP (ID, NAME, S_DATE, EMP_TYPE) VALUES (9, 'JAZMIN', {d '2006-01-03'}, 3);

INSERT INTO CONTRACT_EMP (ID, D_RATE, TERM) VALUES (1, 500, 12); INSERT INTO CONTRACT_EMP (ID, D_RATE, TERM) VALUES (2, 600, 24);

INSERT INTO CONTRACT_EMP (ID, D_RATE, TERM) VALUES (3, 700, 18);

INSERT INTO FT_EMP (ID, VACATION, SALARY, PENSION) VALUES (4, 15, 55000, 100000);

INSERT INTO FT_EMP (ID, VACATION, SALARY, PENSION) VALUES (5, 15, 59000, 200000);

INSERT INTO FT_EMP (ID, VACATION, SALARY, PENSION) VALUES (6, 20, 60000, 450000);

INSERT INTO PT_EMP (ID, VACATION, H_RATE) VALUES (7, 15, 17.0);

INSERT INTO PT_EMP (ID, VACATION, H_RATE) VALUES (8, 15, 16.0);

INSERT INTO PT_EMP (ID, VACATION, H_RATE) VALUES (9, 10, 15.0);

Select * from CONTRACT_EMP;

select * from PT_EMP;
select * from FT_EMP;
select * from EMP;