-- MySQL Workbench Forward Engineering

SET @OLD\_UNIQUE\_CHECKS=@@UNIQUE\_CHECKS, UNIQUE\_CHECKS=0;

SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0;

SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='ONLY\_FULL\_GROUP\_BY,STRICT\_TRANS\_TABLES,NO\_ZERO\_IN\_DATE,NO\_ZERO\_DATE,ERROR\_FOR\_DIVISION\_BY\_ZERO,NO\_ENGINE\_SUBSTITUTION';

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-- Schema mydb

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CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8mb3 ;

USE `mydb` ;

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-- Table `mydb`.`client`

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CREATE TABLE IF NOT EXISTS `mydb`.`client` (

`id` INT NOT NULL,

`face\_view` VARCHAR(255) NULL DEFAULT NULL,

`name\_organization` VARCHAR(255) NULL DEFAULT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb3;

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-- Table `mydb`.`organization`

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CREATE TABLE IF NOT EXISTS `mydb`.`organization` (

`id` INT NOT NULL,

`place` VARCHAR(255) NULL DEFAULT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb3;

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-- Table `mydb`.`employees`

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CREATE TABLE IF NOT EXISTS `mydb`.`employees` (

`id` INT NOT NULL,

`name\_personal` VARCHAR(255) NULL DEFAULT NULL,

`date\_receipt` DATE NULL DEFAULT NULL,

`date\_dismissal` DATE NULL DEFAULT NULL,

`organization\_id` INT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_employees\_organization1\_idx` (`organization\_id` ASC),

CONSTRAINT `fk\_employees\_organization1`

FOREIGN KEY (`organization\_id`)

REFERENCES `mydb`.`organization` (`id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb3;

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-- Table `mydb`.`agreement`

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CREATE TABLE IF NOT EXISTS `mydb`.`agreement` (

`name\_agreement` VARCHAR(255) NOT NULL,

`date\_registration` DATE NULL DEFAULT NULL,

`client\_id` INT NOT NULL,

`employees\_id` INT NOT NULL,

INDEX `fk\_agreement\_client\_idx` (`client\_id` ASC),

INDEX `fk\_agreement\_employees1\_idx` (`employees\_id` ASC),

CONSTRAINT `fk\_agreement\_client`

FOREIGN KEY (`client\_id`)

REFERENCES `mydb`.`client` (`id`),

CONSTRAINT `fk\_agreement\_employees1`

FOREIGN KEY (`employees\_id`)

REFERENCES `mydb`.`employees` (`id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb3;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;

insert into client values(1, 'физическое лицо', 'ОАО"Дар"');

insert into client values(2, 'юридическое лицо', 'ОАО "Мир"');

insert into client values(3, 'физическое лицо', 'Иванов Иван Иванович');

insert into organization values(1, 'Ленина');

insert into organization values(2, 'Белинского');

insert into organization values(3, 'Космонавтов')

insert into employees values(1, 'Надежда', '2015-01-01', '2017-01-01', 1);

insert into employees values(2, 'Надежда', '2017-01-01', '2500-12-30', 2);

insert into employees values(3, 'Анатолий', '2016-01-01', '2017-01-01', 1);

insert into employees values(4, 'Анатолий', '2017-01-01', '2500-12-30', 3);

insert into employees values(5, 'Сергей', '2017-01-01', '2500-12-30', 2);

insert into agreement values('АБ-1', '2015-05-05', 1, 1);

insert into agreement values('АБ-2', '2016-05-05', 1, 1);

insert into agreement values('АБ-3', '2017-05-05', 1, 2);

insert into agreement values('БВ-1', '2015-03-03', 2, 1);

insert into agreement values('БВ-2', '2016-03-03', 2, 3);

insert into agreement values('БВ-3', '2017-05-05', 2, 4);

insert into agreement values('ИИ-1', '2017-07-07', 3, 4);

//1.1

SELECT agreement.name\_agreement номер\_соглашения, agreement.date\_registration дата\_соглашения, client.name\_organization имя\_клиента, employees.name\_personal имя\_сотрудника

FROM agreement join client ON agreement.client\_id = client.id

join employees ON agreement.employees\_id = employees.id

//1.2

SELECT agreement.name\_agreement номер\_соглашения, agreement.date\_registration дата\_соглашения,

(select client.name\_organization

from client

where agreement.client\_id = client.id) as имя\_клиента,

(select employees.name\_personal

from employees

where agreement.employees\_id = employees.id

) as имя\_сотрудника

from agreement

//2

select agreement.date\_registration Дата\_регистрации, COUNT(agreement.date\_registration) количество

from agreement

GROUP BY agreement.date\_registration

HAVING COUNT(agreement.date\_registration) > 1;

//or

select agreement.date\_registration Дата\_регистрации

from agreement

GROUP BY agreement.date\_registration

HAVING COUNT(agreement.date\_registration) > 1;

//3.1

select employees.name\_personal имя\_сотрудника, count(agreement.employees\_id) рейтинг

from employees, agreement

where (agreement.employees\_id=employees.id)

GROUP BY employees.name\_personal;

//3.2

SELECT empl\_agr.name\_personal as имя\_сотрудника, SUM(empl\_agr.рейтинг) as рейтинг FROM (SELECT employees.id, employees.name\_personal, (SELECT count(agreement.employees\_id) FROM agreement WHERE agreement.employees\_id=employees.id) as рейтинг

FROM employees) empl\_agr

GROUP BY имя\_сотрудника

ORDER BY рейтинг DESC

//4

select distinct(organization.place) офис, count(organization.place) число\_договоров

from employees, organization, agreement

where organization.id = employees.organization\_id and agreement.employees\_id=employees.id

group by organization.place;