

```
show databases;
use company_db;
```

```
create table employees (blog_posts varchar(100),
departments varchar(100),
devices varchar(100),
employees varchar (100),
employees_has_departments varchar (100),
titles varchar (100),
users varchar (100)
);
```

```
show tables;
```

```
CREATE SCHEMA IF NOT EXISTS `employee` DEFAULT CHARACTER SET utf8 ;
USE `employee` ;
```

```
CREATE TABLE IF NOT EXISTS `employees` (
  `emp_id` INT NOT NULL AUTO_INCREMENT,
  `dob` DATE NOT NULL,
  `first_name` VARCHAR(45) NULL,
  `last_name` VARCHAR(45) NULL,
  `phone` VARCHAR(45) NULL,
  `join_date` DATE NULL,
  `email` VARCHAR(255) NULL,
  PRIMARY KEY (`emp_id`),
  UNIQUE INDEX `emp_id_UNIQUE` (`emp_id` ASC) VISIBLE,
  UNIQUE INDEX `email_UNIQUE` (`email` ASC) VISIBLE)
ENGINE = InnoDB
COMMENT = 'Employee personal details';
```

```
CREATE TABLE IF NOT EXISTS `departments` (
  `dep_id` INT NOT NULL AUTO_INCREMENT,
  `dept_name` VARCHAR(45) NULL,
  PRIMARY KEY (`dep_id`),
  UNIQUE INDEX `dept_name_UNIQUE` (`dept_name` ASC) VISIBLE)
ENGINE = InnoDB;
```

```
CREATE TABLE IF NOT EXISTS `devices` (
  `dev_id` INT NOT NULL AUTO_INCREMENT,
  `model` VARCHAR(45) NULL,
  `make` VARCHAR(45) NULL,
  `owndate` DATE NULL,
  `emp_id` INT NOT NULL,
  PRIMARY KEY (`dev_id`),
  INDEX `fk_devices_employees1_idx` (`emp_id` ASC) VISIBLE,
  CONSTRAINT `fk_devices_employees1`
  FOREIGN KEY (`emp_id`)
  REFERENCES `employees` (`emp_id`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```

CREATE TABLE IF NOT EXISTS `employees_has_departments` (
  `emp_id` INT NOT NULL,
  `dep_id` INT NOT NULL,
  PRIMARY KEY (`emp_id`, `dep_id`),
  INDEX `fk_employees_has_departments_departments1_idx` (`dep_id` ASC)
  VISIBLE,
  INDEX `fk_employees_has_departments_employees_idx` (`emp_id` ASC)
  VISIBLE,
  CONSTRAINT `fk_employees_has_departments_employees`
    FOREIGN KEY (`emp_id`)
    REFERENCES `employees` (`emp_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `fk_employees_has_departments_departments1`
    FOREIGN KEY (`dep_id`)
    REFERENCES `departments` (`dep_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

CREATE TABLE IF NOT EXISTS `titles` (
  `emp_id` INT NOT NULL,
  `title` VARCHAR(45) NULL,
  `from_date` DATE NULL,
  `to_date` DATE NULL,
  UNIQUE INDEX `title_UNIQUE` (`title` ASC) VISIBLE,
  PRIMARY KEY (`emp_id`),
  CONSTRAINT `fk_titles_employees1`
    FOREIGN KEY (`emp_id`)
    REFERENCES `employees` (`emp_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

INSERT INTO employees
(dob, first_name, last_name, phone, join_date, email)
VALUES
('1998-05-28', 'Kennedy', 'Waweru', '0724442515', '2016-09-
25', 'kennedywaweru17@gmail.com');

```

```

insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1966-04-14', 'Purcell', 'Madine', '8346212810', '2007-03-
28', 'pmadine0@spotify.com');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1993-01-22', 'Izzy', 'Gribble', '3301072422', '2005-01-
15', 'igribble1@mtv.com');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1970-01-20', 'Fey', 'Cuffley', '4436832691', '1999-04-04',
'fcuffley2@chron.com');

```

```
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1970-03-09', 'Hillie', 'Othen', '3811418681', '2019-03-
08', 'hothen3@nyu.edu');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1980-05-21', 'Randy', 'Lammertz', '3799689105', '2001-02-
13', 'rlammertz4@imdb.com');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1982-02-05', 'Therine', 'Aubery', '8881054012', '2002-07-
13', 'taubery5@woothemes.com');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1988-11-13', 'Gwenore', 'Blenkinship', '9669448540',
'1998-09-03', 'gblenkinship6@businesswire.com');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1965-10-18', 'Dov', 'Anmore', '9616126958', '2015-08-15',
'danmore7@mediafire.com');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1986-04-15', 'Stephine', 'Mayzes', '7343609349', '2017-07-
20', 'smayzes8@home.pl');
insert into employees (dob, first_name, last_name, phone, join_date,
email) values ('1979-04-03', 'Aron', 'Telfer', '5992416826', '2010-05-05',
'atelfer9@indiatimes.com');
```

```
insert into titles (emp_id, title, from_date, to_date) values (3, 'Social
Worker', '1998-02-05', '2019-04-23');
insert into titles (emp_id, title, from_date, to_date) values (5, 'Civil
Engineer', '1998-06-04', '2020-06-21');
insert into titles (emp_id, title, from_date, to_date) values (10, 'Staff
Scientist', '1997-03-06', '2021-01-07');
insert into titles (emp_id, title, from_date, to_date) values (4, 'VP
Quality Control', '1997-03-10', '2020-04-25');
insert into titles (emp_id, title, from_date, to_date) values (2, 'Human
Resources Assistant II', '1997-08-17', '2020-02-28');
insert into titles (emp_id, title, from_date, to_date) values (9, 'Human
Resources Manager', '1997-07-05', '2020-01-18');
insert into titles (emp_id, title, from_date, to_date) values (1, 'Senior
Cost Accountant', '1998-10-19', '2018-08-09');
insert into titles (emp_id, title, from_date, to_date) values (7,
'Database Administrator IV', '1997-07-17', '2019-11-17');
insert into titles (emp_id, title, from_date, to_date) values (6,
'Professor', '1998-01-14', '2021-10-12');
insert into titles (emp_id, title, from_date, to_date) values (8,
'Financial Analyst', '1999-09-21', '2019-09-06');
```

```
insert into departments (dept_name) values ('Engineering');
insert into departments (dept_name) values ('Human Resources');
insert into departments (dept_name) values ('Human Resources');
insert into departments (dept_name) values ('Accounting');
insert into departments (dept_name) values ('Business Development');
insert into departments (dept_name) values ('Human Resources');
```

```
insert into devices (model, make, owndate, emp_id) values ('Aspen',
'Chrysler', '2011-01-21', 5);
insert into devices (model, make, owndate, emp_id) values ('Accent',
'Hyundai', '2007-01-17', 9);
insert into devices (model, make, owndate, emp_id) values ('90', 'Audi',
'2009-02-10', 3);
insert into devices (model, make, owndate, emp_id) values ('Windstar',
'Ford', '2013-08-19', 6);
insert into devices (model, make, owndate, emp_id) values ('Pilot',
'Honda', '2009-01-01', 11);
insert into devices (model, make, owndate, emp_id) values ('Crown
Victoria', 'Ford', '2014-02-23', 5);
insert into devices (model, make, owndate, emp_id) values ('Bonneville',
'Pontiac', '2017-01-10', 11);
insert into devices (model, make, owndate, emp_id) values ('CX-9',
'Mazda', '2008-11-23', 2);
insert into devices (model, make, owndate, emp_id) values ('Corvair',
'Chevrolet', '2009-10-10', 1);
insert into devices (model, make, owndate, emp_id) values ('S4', 'Audi',
'2019-09-15', 8);
```

```
insert into employees_has_departments (emp_id, dep_id) values (11, 6);
insert into employees_has_departments (emp_id, dep_id) values (5, 2);
insert into employees_has_departments (emp_id, dep_id) values (11, 5);
insert into employees_has_departments (emp_id, dep_id) values (11, 5);
insert into employees_has_departments (emp_id, dep_id) values (9, 2);
insert into employees_has_departments (emp_id, dep_id) values (3, 1);
insert into employees_has_departments (emp_id, dep_id) values (4, 5);
insert into employees_has_departments (emp_id, dep_id) values (8, 1);
insert into employees_has_departments (emp_id, dep_id) values (6, 1);
```

```
show tables;
```

```
SET SQL_SAFE_UPDATES = 0;
```

```
update employees
set first_name = "Jamine"
where first_name = "Kennedy";
```

```
update employees
set last_name = "Muete"
where last_name = "Waweru";
```

```
update employees
set email = "jaminemuete@gmail.com"
where email = "kennedywaweru17@gmail.com";
```

```
SET SQL_SAFE_UPDATES = 1;
```

```
show tables;
```

```
describe employees;
```

```
SELECT * FROM employees  
INNER JOIN devices ON employees.emp_id = devices.emp_id;
```

```
SELECT * FROM employees  
LEFT JOIN devices ON employees.emp_id = devices.emp_id;
```

```
select first_name, last_name, title  
from employees, titles  
group by title  
order by first_name, last_name;
```