Hotel database

Student's names and ID's:

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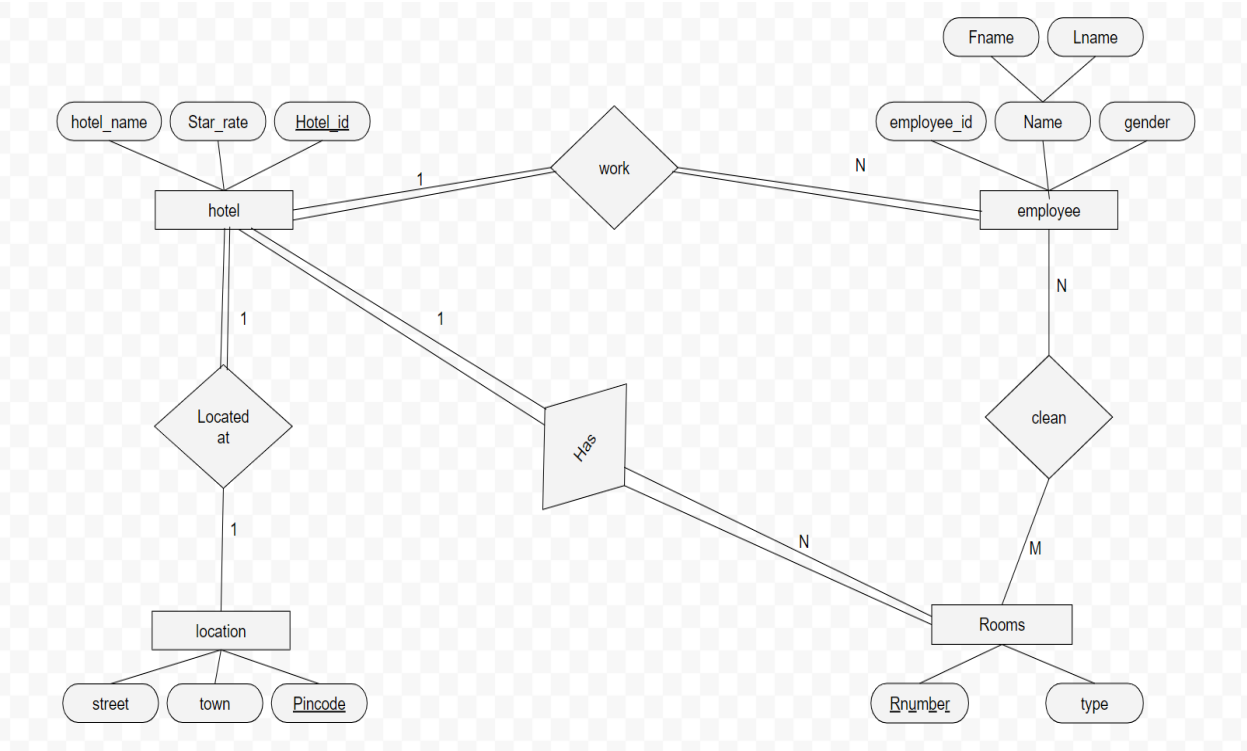
Step 2 :

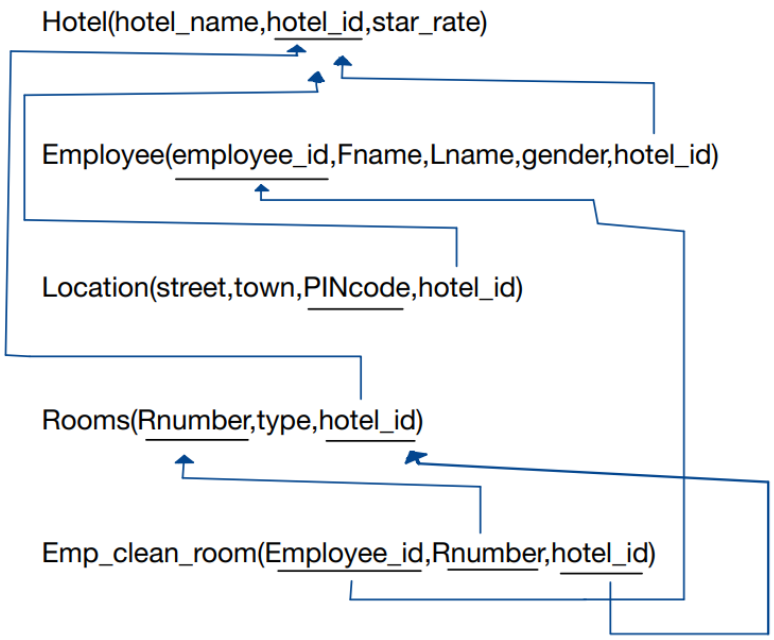
Elaboration:

Our project will be about the hotel systems and its entities will be Hotel,Employee,Location and Rooms.

Step 3 :



Step 4 :



Step 5 :

```
-- 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';


-- -----------------------------------------------------

-- Schema mydb
```

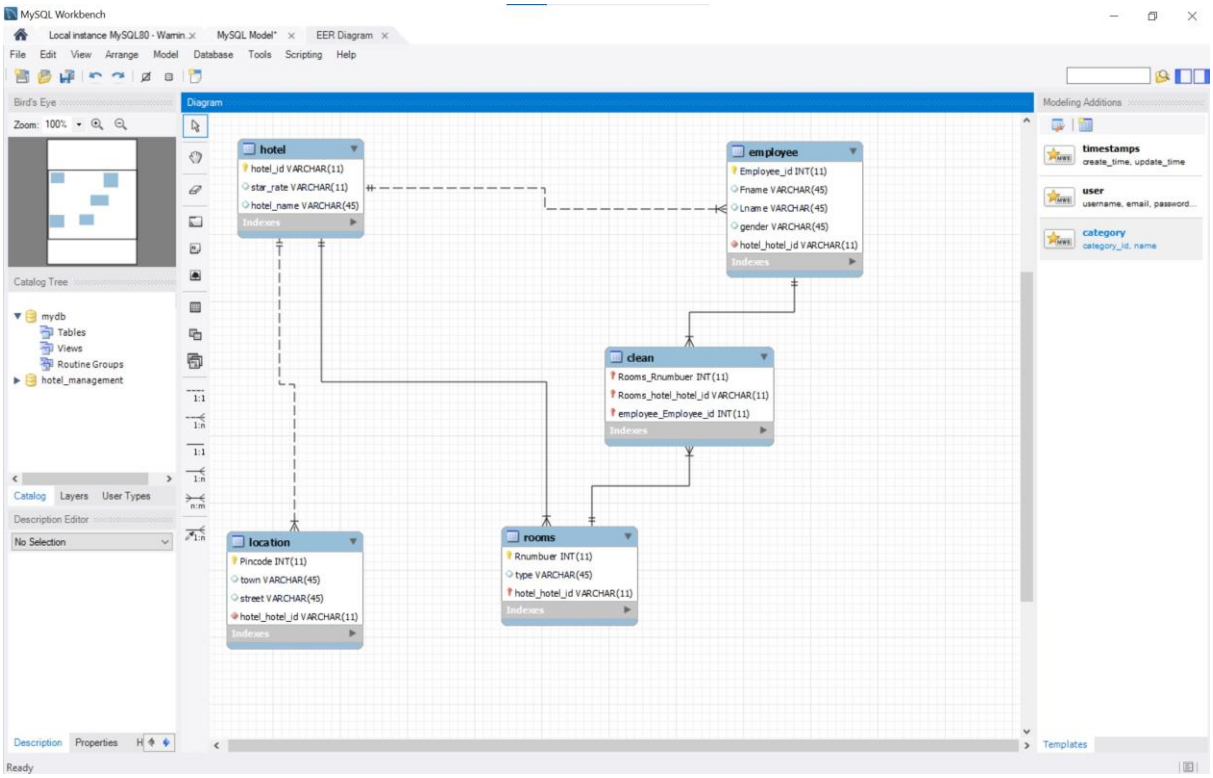
```
-- -----------------------------------------------------

-- -----------------------------------------------------

-- Schema hotel_management

-- -----------------------------------------------------


-- -----------------------------------------------------

-- Schema hotel_management

-- -----------------------------------------------------

CREATE SCHEMA IF NOT EXISTS `hotel_management` DEFAULT CHARACTER SET utf8mb4 ;

USE `hotel_management` ;


-- -----------------------------------------------------

-- Table `hotel_management`.`hotel`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `hotel_management`.`hotel` (

  `hotel_id` VARCHAR(11) NOT NULL,

  `star_rate` VARCHAR(11) NULL DEFAULT NULL,

  `hotel_name` VARCHAR(45) NULL DEFAULT NULL,

  PRIMARY KEY (`hotel_id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4;

-- -----------------------------------------------------

-- Table `hotel_management`.`rooms`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `hotel_management`.`rooms` (

  `Rnumbuer` INT(11) NOT NULL,

  `type` VARCHAR(45) NULL DEFAULT NULL,

  `hotel_hotel_id` VARCHAR(11) NOT NULL,

  PRIMARY KEY (`Rnumbuer`, `hotel_hotel_id`),
```

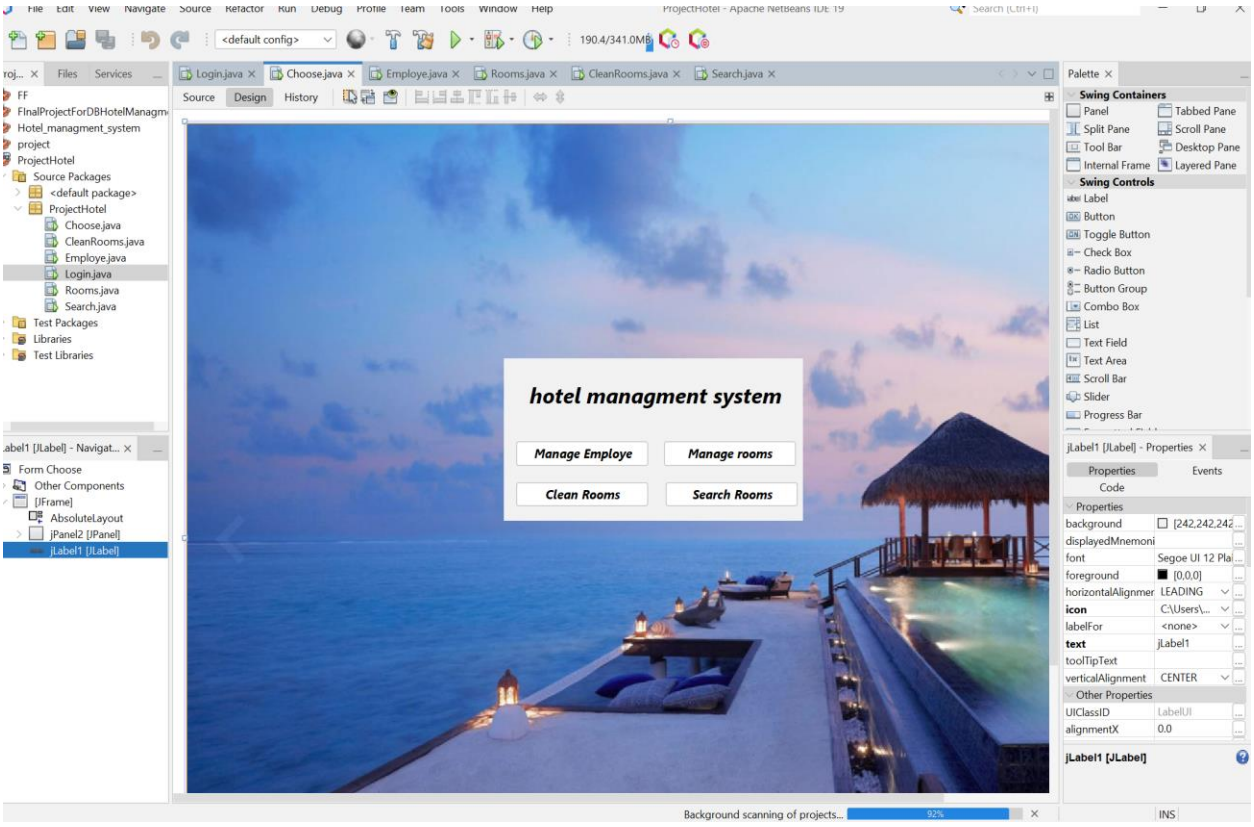
```
  INDEX `fk_Rooms_hotel1_idx` (`hotel_hotel_id` ASC) ,
  CONSTRAINT `fk_Rooms_hotel1`
    FOREIGN KEY (`hotel_hotel_id`)
    REFERENCES `hotel_management`.`hotel` (`hotel_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- -----------------------------------------------------
-- Table `hotel_management`.`employee`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `hotel_management`.`employee` (
  `Employee_id` INT(11) NOT NULL,
  `Fname` VARCHAR(45) NULL DEFAULT NULL,
  `Lname` VARCHAR(45) NULL DEFAULT NULL,
  `gender` VARCHAR(45) NULL DEFAULT NULL,
  `hotel_hotel_id` VARCHAR(11) NOT NULL,
  PRIMARY KEY (`Employee_id`),
  INDEX `fk_employee_hotel1_idx` (`hotel_hotel_id` ASC) ,
  CONSTRAINT `fk_employee_hotel1`
    FOREIGN KEY (`hotel_hotel_id`)
    REFERENCES `hotel_management`.`hotel` (`hotel_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- -----------------------------------------------------
-- Table `hotel_management`.`clean`
-- -----------------------------------------------------
```

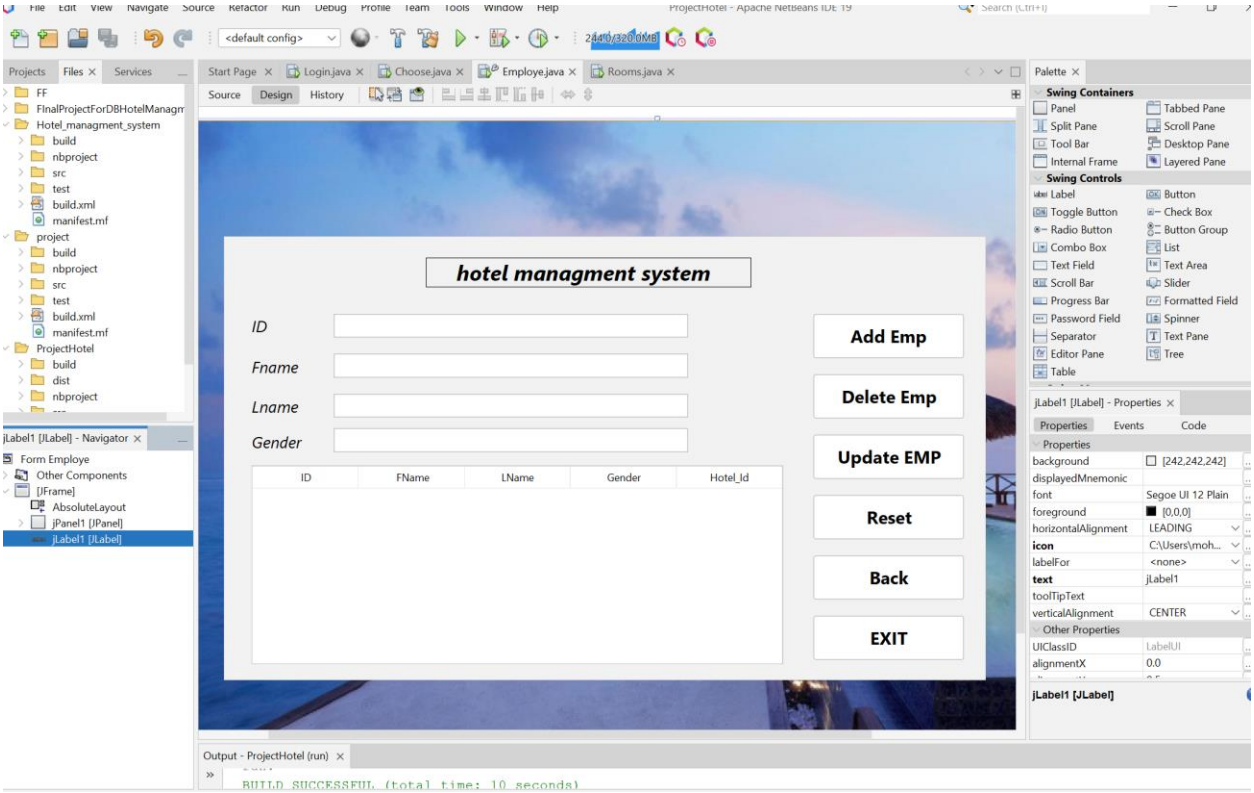
```
CREATE TABLE IF NOT EXISTS `hotel_management`.`clean` (
  `Rooms_Rnumbuer` INT(11) NOT NULL,
  `Rooms_hotel_hotel_id` VARCHAR(11) NOT NULL,
  `employee_Employee_id` INT(11) NOT NULL,
  PRIMARY KEY (`Rooms_Rnumbuer`, `Rooms_hotel_hotel_id`, `employee_Employee_id`),
  INDEX `fk_Rooms_has_employee_employee1_idx` (`employee_Employee_id` ASC) ,
  INDEX `fk_Rooms_has_employee_Rooms1_idx` (`Rooms_Rnumbuer` ASC, `Rooms_hotel_hotel_id` ASC)
,
  CONSTRAINT `fk_Rooms_has_employee_Rooms1`
    FOREIGN KEY (`Rooms_Rnumbuer` , `Rooms_hotel_hotel_id`)
    REFERENCES `hotel_management`.`rooms` (`Rnumbuer` , `hotel_hotel_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `fk_Rooms_has_employee_employee1`
    FOREIGN KEY (`employee_Employee_id`)
    REFERENCES `hotel_management`.`employee` (`Employee_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- -----------------------------------------------------
-- Table `hotel_management`.`location`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `hotel_management`.`location` (
  `Pincode` INT(11) NOT NULL,
  `town` VARCHAR(45) NULL DEFAULT NULL,
  `street` VARCHAR(45) NULL DEFAULT NULL,
  `hotel_hotel_id` VARCHAR(11) NOT NULL,
  PRIMARY KEY (`Pincode`),
```

```
  INDEX `fk_Location_hotel1_idx` (`hotel_hotel_id` ASC) ,
  CONSTRAINT `fk_Location_hotel1`
    FOREIGN KEY (`hotel_hotel_id`)
    REFERENCES `hotel_management`.`hotel` (`hotel_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```

Step 6:




hotel managment system
Manage Employe
Manage rooms
Clean Rooms
Search Rooms


hotel managment system
ID
Fname
Lname
Gender
Add Emp
Delete Emp
Update EMP
Reset
Back
EXIT
ID
FName
LName
Gender
Hotel_Id

Step 7:

The environment we used is MySQL, google draw, MySQLworkbunch.

and the Programming we intend to use in designing the graphical user interface is Java by using JBDC to connect our database with java NetBeans.

Step 8:

We have implemented various queries including "Add Employee," "Delete Employee," "Update Employee," "Add Rooms," "Delete Rooms," and "Update Rooms" in our system.

- Add Employee: allowed to insert new Employee.
- Delete Employee: allowed to remove a certain Employee.
- Update Employee: allowed to Update a certain Employee.
- Add Rooms: allowed to insert new Rooms.
- Delete Rooms: allowed to remove a certain Rooms.
- Update Rooms: allowed to Update a certain Rooms.