Person:

```
CREATE TABLE `person` (
  `first_name` varchar(20) DEFAULT NULL,
  `last_name` varchar(20) DEFAULT NULL,
  `email` varchar(50) NOT NULL,
  `password` varchar(50) NOT NULL,
  `group_id` varchar(10) DEFAULT NULL,
  `user_level` int(11) NOT NULL,
  PRIMARY KEY (`email`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
```

Quiz:

```
CREATE TABLE `quize` (
 `quize_id` varchar(5) NOT NULL,
 `creator_email` varchar(50) NOT NULL,
 `quize_name` varchar(30) NOT NULL,
 PRIMARY KEY (`quize_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
```

Lab:

```
CREATE TABLE `lab` (
    `lab_id` varchar(5) NOT NULL,
    `lab_name` varchar(50) NOT NULL,
    PRIMARY KEY (`lab_id`),
    UNIQUE KEY `unique` (`lab_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
```

Lab_Student:

```
CREATE TABLE `lab_student` (
  `lab_id` varchar(5) NOT NULL,
  `stu_email` varchar(50) NOT NULL,
  `done` int(11) NOT NULL,
  `group_id_lab` varchar(10) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
```

Site group:

```
CREATE TABLE `site_group` (
    `site_group_id` varchar(10) NOT NULL,
    `admin_email` varchar(50) NOT NULL,
    PRIMARY KEY (`site_group_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
```

Questions:

```
CREATE TABLE `question` (
 `question_id` varchar(20) NOT NULL,
```

```
`quize_id` varchar(5) NOT NULL,
 `question_text` varchar(300) DEFAULT NULL,
 `question_answer1` varchar(100) DEFAULT NULL,
 `question_answer2` varchar(100) DEFAULT NULL,
 `question_answer3` varchar(100) DEFAULT NULL,
 `question_answer4` varchar(100) DEFAULT NULL,
 `correct_answer` int(10) NOT NULL,
 PRIMARY KEY (`question_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
```

Take quize:

CREATE TABLE `take_quize` (
 `quize_id` varchar(5) NOT NULL,
 `student_email` varchar(50) NOT NULL,
 `grade` int(11) NOT NULL,
 `date` date NOT NULL,
 `max_grade` int(3) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4

Alter statement:

ALTER TABLE person
ADD CONSTRAINT FK_person_group_id
FOREIGN KEY (group id) REFERENCES site group(site group id);

ALTER TABLE quize

ADD CONSTRAINT FK_person_creator_email

FOREIGN KEY (creator_email) REFERENCES person(email);

ALTER TABLE lab_student
ADD CONSTRAINT FK_lab_id
FOREIGN KEY (lab_id) REFERENCES lab(lab_id);

ALTER TABLE lab_student
ADD CONSTRAINT FK_stu_email
FOREIGN KEY (group_id_lab) REFERENCES person(email);
ALTER TABLE lab_student
ADD CONSTRAINT FK_site_group_id
FOREIGN KEY (stu_email) REFERENCES site_group(site_group_id);

ALTER TABLE site_group
ADD CONSTRAINT FK_admin_email_group
FOREIGN KEY (admin_email) REFERENCES person(email);

ALTER TABLE question

ADD CONSTRAINT FK_que_quiz_id FOREIGN KEY (quize_id) REFERENCES quize(quize_id);

ALTER TABLE take_quize
ADD CONSTRAINT FK_que_tak_quiz_id
FOREIGN KEY (quize_id) REFERENCES quize(quize_id);

ALTER TABLE take_quize
ADD CONSTRAINT FK_tak_quiz_email
FOREIGN KEY (student_email) REFERENCES person(email);