# **ПРИЛОЖЕНИЕ А**

**(обязательное)**

**Программная реализация базы данных на языке программирования SQL (к пункту 2.4)**

-- 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 new\_test

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CREATE SCHEMA IF NOT EXISTS `new\_test` DEFAULT CHARACTER SET utf8 ;

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-- Schema my\_project

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

USE `new\_test` ;

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-- Table `new\_test`.`prepods`

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CREATE TABLE IF NOT EXISTS `new\_test`.`prepods` (

`user\_id` INT NOT NULL,

`first\_name` VARCHAR(45) NULL,

`last\_name` VARCHAR(45) NULL,

`fathers\_name` VARCHAR(50) NULL,

`location` VARCHAR(10) NULL,

`phone` VARCHAR(30) NULL,

`email` VARCHAR(50) NULL,

PRIMARY KEY (`user\_id`))

ENGINE = InnoDB;

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-- Table `new\_test`.`roles`

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CREATE TABLE IF NOT EXISTS `new\_test`.`roles` (

`role\_name\_id` TINYINT NOT NULL,

`role\_name` VARCHAR(30) NULL,

PRIMARY KEY (`role\_name\_id`))

ENGINE = InnoDB;

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-- Table `new\_test`.`authorization`

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CREATE TABLE IF NOT EXISTS `new\_test`.`authorization` (

`auth\_id` INT NOT NULL,

`login` VARCHAR(45) NULL,

`pass` CHAR(32) NULL,

`role\_id` TINYINT NOT NULL,

PRIMARY KEY (`auth\_id`),

INDEX `role\_id\_idx` (`role\_id` ASC) VISIBLE,

CONSTRAINT `auth\_id`

FOREIGN KEY (`auth\_id`)

REFERENCES `new\_test`.`prepods` (`user\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `role\_id`

FOREIGN KEY (`role\_id`)

REFERENCES `new\_test`.`roles` (`role\_name\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `new\_test`.`consultation`

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CREATE TABLE IF NOT EXISTS `new\_test`.`consultation` (

`consult\_id` INT NOT NULL,

`user\_text\_consult` TEXT NULL,

PRIMARY KEY (`consult\_id`),

UNIQUE INDEX `user\_id\_UNIQUE` (`consult\_id` ASC) VISIBLE,

CONSTRAINT `consult\_id`

FOREIGN KEY (`consult\_id`)

REFERENCES `new\_test`.`prepods` (`user\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `new\_test`.`subjects`

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

CREATE TABLE IF NOT EXISTS `new\_test`.`subjects` (

`subject\_name\_id` INT NOT NULL,

`subject\_name` TEXT NULL,

PRIMARY KEY (`subject\_name\_id`))

ENGINE = InnoDB;

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

-- Table `new\_test`.`courses`

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

CREATE TABLE IF NOT EXISTS `new\_test`.`courses` (

`user\_subj\_id` INT NOT NULL,

`subject\_of\_course\_id` INT NOT NULL,

PRIMARY KEY (`user\_subj\_id`),

INDEX `subject\_of\_course\_id\_idx` (`subject\_of\_course\_id` ASC) VISIBLE,

CONSTRAINT `user\_subj\_id`

FOREIGN KEY (`user\_subj\_id`)

REFERENCES `new\_test`.`prepods` (`user\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `subject\_of\_course\_id`

FOREIGN KEY (`subject\_of\_course\_id`)

REFERENCES `new\_test`.`subjects` (`subject\_name\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `new\_test`.`groups\_stud`

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CREATE TABLE IF NOT EXISTS `new\_test`.`groups\_stud` (

`group\_name\_id` INT NOT NULL,

`speciality\_name` TEXT NULL,

PRIMARY KEY (`group\_name\_id`))

ENGINE = InnoDB;

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

-- Table `new\_test`.`prepods\_job`

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CREATE TABLE IF NOT EXISTS `new\_test`.`prepods\_job` (

`job\_id` INT NOT NULL,

`position\_name` VARCHAR(45) NULL,

`ac\_degree` TEXT NULL,

`science\_direction` TEXT NULL,

PRIMARY KEY (`job\_id`),

UNIQUE INDEX `user\_id\_UNIQUE` (`job\_id` ASC) VISIBLE,

CONSTRAINT `job\_id`

FOREIGN KEY (`job\_id`)

REFERENCES `new\_test`.`prepods` (`user\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `new\_test`.`timetable`

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CREATE TABLE IF NOT EXISTS `new\_test`.`timetable` (

`table\_id` INT NOT NULL,

`subject\_id` INT NOT NULL,

`subject\_time\_start` TIME NULL,

`subject\_time\_end` TIME NULL,

`subject\_date` DATE NULL,

`subject\_location` VARCHAR(10) NULL,

`group\_number` INT NOT NULL,

PRIMARY KEY (`table\_id`),

INDEX `group\_number\_idx` (`group\_number` ASC) VISIBLE,

INDEX `subject\_id\_idx` (`subject\_id` ASC) VISIBLE,

CONSTRAINT `table\_id`

FOREIGN KEY (`table\_id`)

REFERENCES `new\_test`.`prepods` (`user\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `group\_number`

FOREIGN KEY (`group\_number`)

REFERENCES `new\_test`.`groups\_stud` (`group\_name\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `subject\_id`

FOREIGN KEY (`subject\_id`)

REFERENCES `new\_test`.`subjects` (`subject\_name\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

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

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