

Nama : Wildan Kamal Allam  
NIM : 24060120140126

```
-- MySQL dump 10.13  Distrib 8.0.27, for Win64 (x86_64)
--
-- Host: localhost      Database: venture
-- -----
-- Server version      8.0.27

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS
*/;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0
*/;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `investor`
--

DROP TABLE IF EXISTS `investor`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `investor` (
  `idInvestor` int NOT NULL,
  `nama` varchar(100) NOT NULL,
  `umur` int NOT NULL,
  `nickname` varchar(45) NOT NULL,
  PRIMARY KEY (`idInvestor`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `investor`
--

LOCK TABLES `investor` WRITE;
/*!40000 ALTER TABLE `investor` DISABLE KEYS */;
INSERT INTO `investor` VALUES
(661030201,'eve',21,'eve'),(661030202,'ina',22,'Eros'),(661030203,
'anto',23,'Zeins'),(661030204,'Firda',20,'Zenith'),(661030205,'Mak
i',20,'Zennin'),(661030206,'Nozomi',21,'Koiii'),(661030207,'Guruh'
,22,'Catto'),(661030208,'Alfheim',16,'Vethra'),(661030209,'Siti
Qomariyah',20,'Mariah'),(661030210,'Jaka Sembung',23,'Jack');
/*!40000 ALTER TABLE `investor` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `log_project`
```

Nama : Wildan Kamal Allam  
NIM : 24060120140126

```
--  
  
DROP TABLE IF EXISTS `log_project`;  
/*!40101 SET @saved_cs_client      = @@character_set_client */;  
/*!50503 SET character_set_client = utf8mb4 */;  
CREATE TABLE `log_project` (  
  `id_log` int NOT NULL AUTO_INCREMENT,  
  `nilai_lama` int NOT NULL,  
  `nilai_baru` int NOT NULL,  
  `waktu` date NOT NULL,  
  `nama_project` varchar(100) DEFAULT NULL,  
  PRIMARY KEY (`id_log`)  
) ENGINE=InnoDB AUTO_INCREMENT=50 DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;  
/*!40101 SET character_set_client = @saved_cs_client */;  
  
--  
-- Dumping data for table `log_project`  
--  
  
LOCK TABLES `log_project` WRITE;  
/*!40000 ALTER TABLE `log_project` DISABLE KEYS */;  
INSERT INTO `log_project` VALUES (1,50000,45000,'2022-02-  
26',NULL), (2,45000,50000,'2022-02-26',NULL), (3,45000,60000,'2022-  
02-26',NULL), (4,23000,25000,'2022-02-  
26','Near'), (5,60000,30000,'2022-02-  
26','Solana'), (6,30000,30000,'2022-02-  
26','Solana'), (7,25000,25000,'2022-02-  
26','Near'), (8,50000,50000,'2022-02-  
26','Axie'), (9,12000,12000,'2022-02-  
26','Affyn'), (10,65000,65000,'2022-02-  
26','Azuki'), (11,29000,29000,'2022-02-  
26','Karafuru'), (12,46000,46000,'2022-02-  
26','Kadena'), (13,65000,65000,'2022-02-  
26','Layer2BTC'), (14,45500,45500,'2022-02-  
26','Aurora'), (15,78000,78000,'2022-02-  
26','Eizperchain'), (16,30000,30000,'2022-02-  
26','Solana'), (17,25000,25000,'2022-02-  
26','Near'), (18,50000,50000,'2022-02-  
26','Axie'), (19,12000,12000,'2022-02-  
26','Affyn'), (20,65000,65000,'2022-02-  
26','Azuki'), (21,29000,29000,'2022-02-  
26','Karafuru'), (22,46000,46000,'2022-02-  
26','Kadena'), (23,65000,65000,'2022-02-  
26','Layer2BTC'), (24,45500,45500,'2022-02-  
26','Aurora'), (25,78000,78000,'2022-02-  
26','Eizperchain'), (26,30000,30000,'2022-02-  
26','Solana'), (27,25000,25000,'2022-02-  
26','Near'), (28,50000,50000,'2022-02-  
26','Axie'), (29,12000,12000,'2022-02-  
26','Affyn'), (30,65000,65000,'2022-02-  
26','Azuki'), (31,29000,29000,'2022-02-  
26','Karafuru'), (32,46000,46000,'2022-02-  
26','Kadena'), (33,65000,65000,'2022-02-  
26','Layer2BTC'), (34,45500,45500,'2022-02-
```

Nama : Wildan Kamal Allam  
NIM : 24060120140126

```
26','Aurora'),(35,78000,78000,'2022-02-
26','Eizperchain'),(36,30000,30000,'2022-02-
26','Solana'),(37,25000,25000,'2022-02-
26','Near'),(38,50000,50000,'2022-02-
26','Axie'),(39,12000,12000,'2022-02-
26','Affyn'),(40,65000,65000,'2022-02-
26','Azuki'),(41,29000,29000,'2022-02-
26','Karafuru'),(42,46000,46000,'2022-02-
26','Kadena'),(43,65000,65000,'2022-02-
26','Layer2BTC'),(44,45500,45500,'2022-02-
26','Aurora'),(45,78000,78000,'2022-02-
26','Eizperchain'),(48,30000,50000,'2022-02-26','Solana');
/*!40000 ALTER TABLE `log_project` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `project`
--

DROP TABLE IF EXISTS `project`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `project` (
  `idProject` int NOT NULL,
  `nama_project` varchar(100) NOT NULL,
  `nilai_project` int NOT NULL,
  `penanggungjawab` int NOT NULL,
  PRIMARY KEY (`idProject`),
  KEY `Penanggung_Jawab_idx` (`penanggungjawab`),
  CONSTRAINT `penanggungjawab` FOREIGN KEY (`penanggungjawab`)
REFERENCES `investor` (`idInvestor`),
  CONSTRAINT `project_chk_1` CHECK ((`nilai_project` > 0))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `project`
--

LOCK TABLES `project` WRITE;
/*!40000 ALTER TABLE `project` DISABLE KEYS */;
INSERT INTO `project` VALUES
(1,'Solana',50000,661030201),(2,'Near',25000,661030202),(3,'Axie',
50000,661030203),(4,'Affyn',12000,661030204),(5,'Azuki',65000,6610
30205),(6,'Karafuru',29000,661030206),(7,'Kadena',46000,661030207)
,(8,'Layer2BTC',65000,661030208),(9,'Aurora',45500,661030209),(10,
'Eizperchain',78000,661030210);
/*!40000 ALTER TABLE `project` ENABLE KEYS */;
UNLOCK TABLES;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
```

Nama : Wildan Kamal Allam  
NIM : 24060120140126

```
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode              =
'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003
TRIGGER `update_nilai_project` BEFORE UPDATE ON `project` FOR EACH
ROW BEGIN
    INSERT INTO log_project
    set nilai_lama = old.nilai_project,
    nilai_baru = new.nilai_project,
    waktu = NOW(),
    nama_project = old.nama_project;
END */;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection  = @saved_col_connection */ ;

--
-- Table structure for table `vesting`
--

DROP TABLE IF EXISTS `vesting`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client  = utf8mb4 */;
CREATE TABLE `vesting` (
  `vesting_id` int NOT NULL,
  `project_id` int NOT NULL,
  `vesting_percentage` int NOT NULL,
  PRIMARY KEY (`vesting_id`),
  KEY `project_id_idx` (`project_id`),
  CONSTRAINT `project_id` FOREIGN KEY (`project_id`) REFERENCES
`project` (`idProject`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client  = @saved_cs_client */;

--
-- Dumping data for table `vesting`
--

LOCK TABLES `vesting` WRITE;
/*!40000 ALTER TABLE `vesting` DISABLE KEYS */;
INSERT INTO `vesting` VALUES
(10,1,25),(20,2,35),(30,3,66),(40,4,22),(50,5,21),(60,6,50),(70,7,
5),(80,8,89),(90,9,45),(100,10,60);
/*!40000 ALTER TABLE `vesting` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `vesting_release`
--
```

Nama : Wildan Kamal Allam  
NIM : 24060120140126

```
DROP TABLE IF EXISTS `vesting_release`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `vesting_release` (
  `idProject` int NOT NULL,
  `nama_project` varchar(100) NOT NULL,
  `nilai_project` int NOT NULL,
  `penanggungjawab` int NOT NULL,
  `percentage` int DEFAULT NULL,
  `belum_cair` int DEFAULT NULL,
  `sudah_cair` int DEFAULT NULL,
  PRIMARY KEY (`idProject`),
  KEY `Penanggung_Jawab_idx` (`penanggungjawab`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `vesting_release`
--

LOCK TABLES `vesting_release` WRITE;
/*!40000 ALTER TABLE `vesting_release` DISABLE KEYS */;
INSERT INTO `vesting_release` VALUES
(1,'Solana',50000,661030201,25,50000,0),(2,'Near',25000,661030202,
35,25000,0),(3,'Axie',50000,661030203,66,50000,0),(4,'Affyn',12000
,661030204,22,12000,0),(5,'Azuki',65000,661030205,21,65000,0),(6,'
Karafuru',29000,661030206,50,29000,0),(7,'Kadena',46000,661030207,
5,46000,0),(8,'Layer2BTC',65000,661030208,89,65000,0),(9,'Aurora',
45500,661030209,45,45500,0),(10,'Eizperchain',78000,661030210,60,7
8000,0);
/*!40000 ALTER TABLE `vesting_release` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Dumping events for database 'venture'
--

--
-- Dumping routines for database 'venture'
--
/*!50003 DROP PROCEDURE IF EXISTS `backup_start` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results    = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              =
'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `backup_start`()
BEGIN
INSERT INTO project_backup SELECT * FROM project;
```

Nama : Wildan Kamal Allam  
NIM : 24060120140126

```
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `dropcolumnbackup` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              =
'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `dropcolumnbackup`()
BEGIN
DELETE FROM project_backup;
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `insertinvestor` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              =
'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `insertinvestor`(
    idInvestor INT,
    nama VARCHAR(100),
    umur INT,
    nickname VARCHAR(45)
)
BEGIN
    INSERT INTO investor
    VALUES (idInvestor, nama, umur, nickname);
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
```

Nama : Wildan Kamal Allam  
NIM : 24060120140126

```
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;  
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;  
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;  
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;  
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;  
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;  
  
-- Dump completed on 2022-02-27 0:20:14
```

2. Buatlah contoh constraint, trigger, dan event

- CONSTRAINT

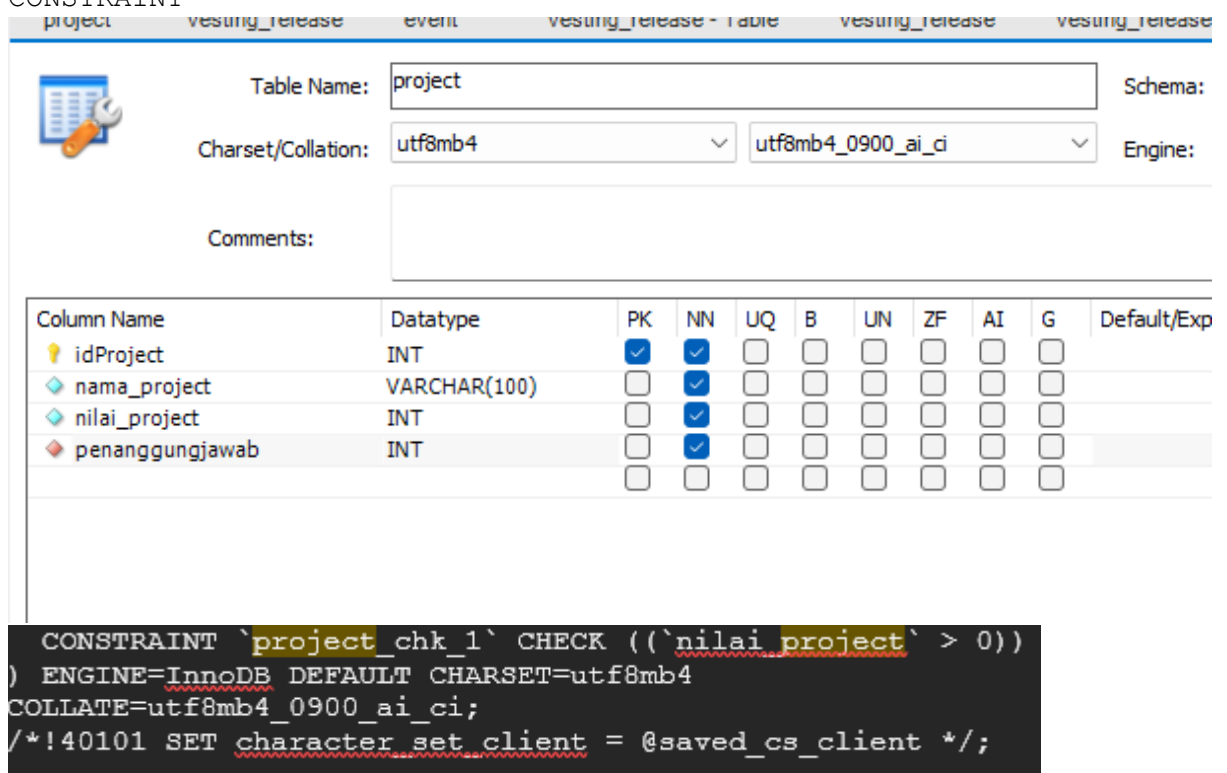


Table Name: project Schema:

Charset/Collation: utf8mb4 utf8mb4\_0900\_ai\_ci Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Exp
idProject	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
nama_project	VARCHAR(100)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
nilai_project	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
penanggungjawab	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

```
CONSTRAINT `project_chk_1` CHECK ((`nilai_project` > 0))  
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;  
/*!40101 SET character_set_client = @saved_cs_client */;
```

- a. idProject menjadi primary key dari table project
- b. Atribut notnull dimiliki oleh semua column karena tidak boleh ada null dalam table ini
- c. Table project tidak berisi constraint unique
- d. Constraint Check pada table project dimiliki column nilai\_project yang berarti nilai project tidak boleh kurang dari 0
- e. Tidak ada default pada kolum ini
- f. Tidak adad foreign key pada kolum ini

Nama : Wildan Kamal Allam  
NIM : 24060120140126

- TRIGGER

```
CREATE DEFINER=`root`@`localhost` TRIGGER
`update_nilai_project` BEFORE UPDATE ON `project` FOR EACH
ROW BEGIN
    INSERT INTO log_project
    set nilai_lama = old.nilai_project,
    nilai_baru = new.nilai_project,
    waktu = NOW(),
    nama_project = old.nama_project;
END
```

TRIGGER ini akan menjalankan fungsi log yang mana apabila terjadi pergantian nilai\_project pada table project maka pergantiannya akan direkam dalam table log\_project

- Event Scheduler

```
CREATE EVENT vesting
on schedule every 1 year
DO
    update vesting_release
    set belum_cair = belum_cair -
    nilai_project*percetage/100,
    sudah_cair = nilai_project*percetage/100
```

Event ini akan otomatis mengupdate kolom belum cair dan sudah cair sesuai jumlah persentasi vesting yang dilaksanakan selama setahun