

Team Name: Profile+

Team Members:

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mysqldump w/ Initial data

```
-- MySQL dump 10.13 Distrib 5.7.16, for osx10.11 (x86_64)
--
-- Host: localhost      Database: new_schema
-- -----
-- Server version      5.7.16

/*!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 */;
/*!40101 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 `AdData`
--

DROP TABLE IF EXISTS `AdData`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `AdData` (
  `AdId` int(11) NOT NULL,
  `EmpId` char(11) NOT NULL,
  `Type` char(20) DEFAULT NULL,
  `Company` char(50) DEFAULT NULL,
  `ItemName` char(50) DEFAULT NULL,
  `Content` varchar(200) DEFAULT NULL,
  `UnitPrice` float DEFAULT NULL,
  `NumOfAvaUnits` int(11) DEFAULT NULL,
  PRIMARY KEY (`AdId`),
  KEY `EmpId` (`EmpId`),
  CONSTRAINT `addata_ibfk_1` FOREIGN KEY (`EmpId`) REFERENCES `Employee` (`SSN`) ON
DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `AdData`
--

LOCK TABLES `AdData` WRITE;
/*!40000 ALTER TABLE `AdData` DISABLE KEYS */;
```

```

INSERT INTO `AdData` VALUES (1,'153581835','Cars','Google','Google Car','First flying car',100,100),(2,'168375077','Cars','Apple','Apple Car','Second flying car',100000,200),(3,'239251935','Server','Google','Google Server','First AI security server',10,100),(4,'264939771','Etc','Oracle','Oracle AI','See into the future',100000000,1),(5,'269768789','Book','Amazon','Textbook1','First flying book',1000,20),(6,'269768789','Book','Amazon','Textbook2','First diving book',2000,10),(7,'269768789','TV','Samsung','Samsung TV','First 5D TV',100,2),(8,'273874496','TV','LG','LG Car','First teleport TV',200,999),(9,'285530393','Human','Google','Jerrel','Enjoy',10000,2),(10,'285530393','Human','Apple','Jerrel2','Enjoy2',100,100);
/*!40000 ALTER TABLE `AdData` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Buy`
-- 

DROP TABLE IF EXISTS `Buy`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;

CREATE TABLE `Buy` (
  `TransId` int(11) NOT NULL,
  `EmpId` char(11) NOT NULL,
  `UserId` int(11) NOT NULL,
  PRIMARY KEY (`TransId`,`EmpId`,`UserId`),
  KEY `EmpId` (`EmpId`),
  KEY `UserId` (`UserId`),
  CONSTRAINT `buy_ibfk_1` FOREIGN KEY (`TransId`) REFERENCES `Sales` (`TransId`) ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `buy_ibfk_2` FOREIGN KEY (`EmpId`) REFERENCES `Employee` (`SSN`) ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `buy_ibfk_3` FOREIGN KEY (`UserId`) REFERENCES `UserPlus` (`UserId`) ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `Buy`
-- 

LOCK TABLES `Buy` WRITE;
/*!40000 ALTER TABLE `Buy` DISABLE KEYS */;
INSERT INTO `Buy` VALUES
(1,'153581835',1),(2,'168375077',2),(3,'168375077',3),(4,'264939771',4),(5,'153581835',5),
,(6,'264939771',6),(7,'153581835',7),(8,'269768789',8),(9,'269768789',9),(10,'269768789',10);
/*!40000 ALTER TABLE `Buy` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Comment`
-- 

DROP TABLE IF EXISTS `Comment`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;

CREATE TABLE `Comment` (
  `CommentId` int(11) NOT NULL AUTO_INCREMENT,
  `DateCreated` datetime DEFAULT NULL,
  `Content` varchar(100) DEFAULT NULL,
  `AuthorId` int(11) DEFAULT NULL,
  PRIMARY KEY (`CommentId`),
  KEY `AuthorId` (`AuthorId`),

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CONSTRAINT `comment_ibfk_1` FOREIGN KEY (`AuthorId`) REFERENCES `UserPlus` (`UserId`)
) ENGINE=InnoDB AUTO_INCREMENT=26 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `Comment`
-- 

LOCK TABLES `Comment` WRITE;
/*!40000 ALTER TABLE `Comment` DISABLE KEYS */;
INSERT INTO `Comment` VALUES (1,'2016-11-07 14:14:57','2',1),(2,'2016-11-07 14:14:57','3',2),(3,'2016-11-07 14:14:57','4',3),(4,'2016-11-07 14:14:57','5',4),(5,'2016-11-07 14:14:57','6',5),(6,'2016-11-07 14:14:57','7',6),(7,'2016-11-07 14:14:57','8',7),(8,'2016-11-07 14:14:57','9',8),(9,'2016-11-07 14:14:57','10',9),(10,'2016-11-07 14:14:57','11',10),(11,'2016-11-07 14:14:57','12',11),(12,'2016-11-07 14:14:57','13',12),(13,'2016-11-07 14:14:57','14',13),(14,'2016-11-07 14:14:57','15',14),(15,'2016-11-07 14:14:57','16',15),(16,'2016-11-07 14:14:57','17',16),(17,'2016-11-07 14:14:57','18',17),(18,'2016-11-07 14:14:57','19',18),(19,'2016-11-07 14:14:57','20',19),(20,'2016-11-07 14:14:57','21',20),(21,'2016-11-07 14:14:57','22',21),(22,'2016-11-07 14:14:57','23',22),(23,'2016-11-07 14:14:57','24',23),(24,'2016-11-07 14:14:57','25',24),(25,'2016-11-07 14:14:57','1',25);
/*!40000 ALTER TABLE `Comment` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `CommentOn`
-- 

DROP TABLE IF EXISTS `CommentOn`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `CommentOn` (
  `CommentId` int(11) NOT NULL,
  `PostId` int(11) NOT NULL,
  PRIMARY KEY (`CommentId`,`PostId`),
  KEY `PostId` (`PostId`),
  CONSTRAINT `commenton_ibfk_1` FOREIGN KEY (`CommentId`) REFERENCES `Comment`(`CommentId`) ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `commenton_ibfk_2` FOREIGN KEY (`PostId`) REFERENCES `Post`(`PostId`) ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `CommentOn`
-- 

LOCK TABLES `CommentOn` WRITE;
/*!40000 ALTER TABLE `CommentOn` DISABLE KEYS */;
INSERT INTO `CommentOn` VALUES
(1,1),(2,1),(3,1),(4,1),(5,1),(6,1),(7,1),(8,1),(9,1),(10,1),(11,1),(12,1),(13,1),(14,1),
(15,1),(16,1),(17,1),(18,1),(19,1),(20,1),(21,1),(22,1),(23,1),(24,1),(25,1);
/*!40000 ALTER TABLE `CommentOn` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `CreatesGroup`
-- 

DROP TABLE IF EXISTS `CreatesGroup`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
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/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `CreatesGroup` (
  `UserId` int(11) NOT NULL,
  `GroupId` int(11) NOT NULL,
  PRIMARY KEY (`UserId`, `GroupId`),
  KEY `GroupId` (`GroupId`),
  CONSTRAINT `createsgroup_ibfk_1` FOREIGN KEY (`UserId`) REFERENCES `UserPlus`(`UserId`) ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `createsgroup_ibfk_2` FOREIGN KEY (`GroupId`) REFERENCES `GroupPlus`(`GroupId`) ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `CreatesGroup`
-- 

LOCK TABLES `CreatesGroup` WRITE;
/*!40000 ALTER TABLE `CreatesGroup` DISABLE KEYS */;
INSERT INTO `CreatesGroup` VALUES
(1,26), (11,26), (2,27), (12,27), (3,28), (14,28), (4,29), (14,29), (5,30), (15,30), (6,31), (7,32),
(8,33), (9,34), (10,35);
/*!40000 ALTER TABLE `CreatesGroup` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Employee`
-- 

DROP TABLE IF EXISTS `Employee`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Employee` (
  `SSN` char(11) NOT NULL,
  `LastName` char(30) DEFAULT NULL,
  `FirstName` char(10) DEFAULT NULL,
  `Address` char(50) DEFAULT NULL,
  `City` char(60) DEFAULT NULL,
  `State` char(20) DEFAULT NULL,
  `ZipCode` char(16) DEFAULT NULL,
  `Telephone` char(20) DEFAULT NULL,
  `StartDate` date DEFAULT NULL,
  `HourlyRate` float DEFAULT NULL,
  PRIMARY KEY (`SSN`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `Employee`
-- 

LOCK TABLES `Employee` WRITE;
/*!40000 ALTER TABLE `Employee` DISABLE KEYS */;
INSERT INTO `Employee` VALUES ('153581835','Cortez','Azalia','P.O. Box 171, 6263 Vulputate, St.', 'Essex', 'Vermont', '98163', '(594) 213-2948', '2016-03-04', '40.11'), ('168375077', 'Vargas', 'Ahmed', 'Ap #913-7885 Aliquam Av.', 'West Valley City', 'Utah', '80233', '(680) 721-9592', '2016-10-19', '95.97'), ('239251935', 'Kline', 'Stacy', 'P.O. Box 264, 7449 Sodales St.', 'St. Petersburg', 'Florida', '44404', '(858) 316-1527', '2016-12-01', '30.68'), ('264939771', 'Landry', 'Dorian', 'Ap #324-4954 Ad Ave', 'Baltimore', 'Maryland', '38110', '(341) 785-7012', '2017-02-26', '76.17'), ('269768789', 'Nolan', 'Driscoll', 'P.O. Box 197, 2598 Lobortis Ave', 'West Valley City', 'Utah', '24427', '(258) 236-5195', '2015-11-

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26',21.44),('273874496','Bond','Xerxes','166-6265 Scelerisque
Rd.', 'Lawton', 'Oklahoma', '61533', '(644) 695-3687', '2016-02-
27',70.92),('285530393','Ware','Karen','510-8225 Est.
Ave', 'Missoula', 'Montana', '98289', '(299) 138-5280', '2016-11-
18',35.56),('319144404','Harrell','Justin','Ap #285-8898 Donec
Avenue', 'Butte', 'Montana', '21088', '(431) 359-7765', '2017-10-
04',86.4),('323455805','Brooks','Brianna','175-183 Suspendisse St.', 'Jefferson
City', 'Missouri', '89105', '(113) 485-3017', '2017-08-
24',43.58),('352369810','Gardner','Neville','P.O. Box 588, 9440 Nullam
St.', 'Cleveland', 'Ohio', '40195', '(937) 304-0073', '2016-11-
10',33.35),('365398046','Hubbard','Aretha','5971 Fusce Rd.', 'South
Bend', 'Indiana', '37591', '(702) 386-6800', '2017-09-
29',71.75),('379548784','Curtis','Octavia','P.O. Box 877, 5076 Elit,
Street', 'Naperville', 'Illinois', '18460', '(550) 590-2634', '2017-07-
26',68.52),('395359320','Russo','Orson','454 Mus.
Rd.', 'Montgomery', 'Alabama', '35310', '(474) 147-3496', '2017-07-
13',62.78),('439086475','Vasquez','Ignatius','537-6243 At
St.', 'Stamford', 'Connecticut', '15700', '(317) 724-8680', '2017-07-
27',26.36),('58971316','Riley','Desiree','270-9361 Lorem
Av.', 'Casper', 'Wyoming', '12432', '(402) 756-7169', '2015-12-
25',27.78),('61029656','Fernandez','Athena','200-8990 Est.
Street', 'Indianapolis', 'Indiana', '89805', '(472) 543-8504', '2016-03-28',21.61);
/*!40000 ALTER TABLE `Employee` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `FriendsWith`
-- 

DROP TABLE IF EXISTS `FriendsWith`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;

CREATE TABLE `FriendsWith` (
  `UserId` int(11) NOT NULL,
  `FriendId` int(11) NOT NULL,
  PRIMARY KEY (`UserId`, `FriendId`),
  KEY `FriendId` (`FriendId`),
  CONSTRAINT `friendswith_ibfk_1` FOREIGN KEY (`UserId`) REFERENCES `UserPlus` (`UserId`)
ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `friendswith_ibfk_2` FOREIGN KEY (`FriendId`) REFERENCES `UserPlus`(`UserId`)
ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `FriendsWith`
-- 

LOCK TABLES `FriendsWith` WRITE;
/*!40000 ALTER TABLE `FriendsWith` DISABLE KEYS */;
INSERT INTO `FriendsWith` VALUES
(2,1),(3,1),(20,1),(25,1),(1,2),(1,3),(6,4),(4,6),(25,10),(1,20),(1,25),(10,25);
/*!40000 ALTER TABLE `FriendsWith` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `GroupPage`
-- 

DROP TABLE IF EXISTS `GroupPage`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;

CREATE TABLE `GroupPage` (

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```

`PageId` int(11) NOT NULL AUTO_INCREMENT,
`GroupId` int(11) DEFAULT NULL,
PRIMARY KEY (`PageId`),
KEY `GroupId` (`GroupId`),
CONSTRAINT `groupage_ibfk_1` FOREIGN KEY (`GroupId`) REFERENCES `GroupPlus`(`GroupId`)
) ENGINE=InnoDB AUTO_INCREMENT=36 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `GroupPage`
-- 

LOCK TABLES `GroupPage` WRITE;
/*!40000 ALTER TABLE `GroupPage` DISABLE KEYS */;
INSERT INTO `GroupPage` VALUES
(26,26),(27,27),(28,28),(29,29),(30,30),(31,31),(32,32),(33,33),(34,34),(35,35);
/*!40000 ALTER TABLE `GroupPage` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `GroupPlus`
-- 

DROP TABLE IF EXISTS `GroupPlus`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `GroupPlus` (
`GroupId` int(11) NOT NULL AUTO_INCREMENT,
`GroupName` varchar(50) DEFAULT NULL,
`Owner` int(11) DEFAULT NULL,
`Type` set('Club','Organization','Event','News') DEFAULT NULL,
PRIMARY KEY (`GroupId`),
KEY `Owner` (`Owner`),
CONSTRAINT `groupplus_ibfk_1` FOREIGN KEY (`Owner`) REFERENCES `UserPlus`(`UserId`)
) ENGINE=InnoDB AUTO_INCREMENT=36 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `GroupPlus`
-- 

LOCK TABLES `GroupPlus` WRITE;
/*!40000 ALTER TABLE `GroupPlus` DISABLE KEYS */;
INSERT INTO `GroupPlus` VALUES (26,'Automated value-added process improvement',1,NULL),(27,'Diverse next generation knowledge base',2,NULL),(28,'Inverse contextually-based forecast',3,NULL),(29,'Team-oriented contextually-based solution',4,NULL),(30,'Enterprise-wide encompassing portal',5,NULL),(31,'Event',6,NULL),(32,'Event',7,NULL),(33,'Event',8,NULL),(34,'Event',9,NULL),(35,'Event',10,NULL);
/*!40000 ALTER TABLE `GroupPlus` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `HasAGroupPage`
-- 

DROP TABLE IF EXISTS `HasAGroupPage`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `HasAGroupPage` (
`GroupId` int(11) NOT NULL,
`PageId` int(11) NOT NULL,

```

```

PRIMARY KEY (`GroupId`, `GroupPageId`),
KEY `GroupPageId` (`GroupPageId`),
CONSTRAINT `hasagrouppage_ibfk_1` FOREIGN KEY (`GroupId`) REFERENCES `GroupPlus`(`GroupId`)
ON DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT `hasagrouppage_ibfk_2` FOREIGN KEY (`GroupPageId`) REFERENCES `GroupPage`(`PageId`)
ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `HasAGroupPage`
-- 

LOCK TABLES `HasAGroupPage` WRITE;
/*!40000 ALTER TABLE `HasAGroupPage` DISABLE KEYS */;
INSERT INTO `HasAGroupPage` VALUES
(26,26),(27,27),(28,28),(29,29),(30,30),(31,31),(32,32),(33,33),(34,34),(35,35);
/*!40000 ALTER TABLE `HasAGroupPage` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `HasAPersonal`
-- 

DROP TABLE IF EXISTS `HasAPersonal`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `HasAPersonal` (
  `UserId` int(11) NOT NULL,
  `PersonalPageId` int(11) NOT NULL,
  PRIMARY KEY (`UserId`, `PersonalPageId`),
  KEY `PersonalPageId` (`PersonalPageId`),
  CONSTRAINT `hasapersonal_ibfk_1` FOREIGN KEY (`UserId`) REFERENCES `UserPlus`(`UserId`)
ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `hasapersonal_ibfk_2` FOREIGN KEY (`PersonalPageId`) REFERENCES `PersonalPage`(`PageId`)
ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `HasAPersonal`
-- 

LOCK TABLES `HasAPersonal` WRITE;
/*!40000 ALTER TABLE `HasAPersonal` DISABLE KEYS */;
INSERT INTO `HasAPersonal` VALUES
(1,1),(2,2),(3,3),(4,4),(5,5),(6,6),(7,7),(8,8),(9,9),(10,10),(11,11),(12,12),(13,13),(14,14),(15,15),(16,16),(17,17),(18,18),(19,19),(20,20),(21,21),(22,22),(23,23),(24,24),(25,25);
/*!40000 ALTER TABLE `HasAPersonal` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `HasAccessToGroup`
-- 

DROP TABLE IF EXISTS `HasAccessToGroup`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `HasAccessToGroup` (
  `UserId` int(11) NOT NULL,
  `AdderId` int(11) DEFAULT NULL,
  `PageId` int(11) NOT NULL,

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```

`GroupId` int(11) NOT NULL,
PRIMARY KEY (`UserId`, `PageId`, `GroupId`),
KEY `PageId` (`PageId`),
KEY `GroupId` (`GroupId`),
KEY `AdderId` (`AdderId`),
CONSTRAINT `hasaccesstogroup_ibfk_1` FOREIGN KEY (`UserId`) REFERENCES `UserPlus`(`UserId`) ON DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT `hasaccesstogroup_ibfk_2` FOREIGN KEY (`PageId`) REFERENCES `PagePlus`(`PageId`) ON DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT `hasaccesstogroup_ibfk_3` FOREIGN KEY (`GroupId`) REFERENCES `GroupPlus`(`GroupId`) ON DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT `hasaccesstogroup_ibfk_4` FOREIGN KEY (`AdderId`) REFERENCES `UserPlus`(`UserId`) ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `HasAccessToGroup`
-- 

LOCK TABLES `HasAccessToGroup` WRITE;
/*!40000 ALTER TABLE `HasAccessToGroup` DISABLE KEYS */;
INSERT INTO `HasAccessToGroup` VALUES
(1,NULL,26,26),(2,NULL,27,27),(3,NULL,28,28),(4,NULL,29,29),(5,NULL,30,30),(6,NULL,31,31),
,(7,NULL,32,32),(8,NULL,33,33),(9,NULL,34,34),(10,NULL,35,35),(11,1,26,26),(12,2,27,27),
,(14,3,28,28),(14,4,29,29),(15,5,30,30);
/*!40000 ALTER TABLE `HasAccessToGroup` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `IsIn`
-- 

DROP TABLE IF EXISTS `IsIn`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `IsIn` (
`UserId` int(11) NOT NULL,
`GroupId` int(11) NOT NULL,
PRIMARY KEY (`UserId`, `GroupId`),
KEY `GroupId` (`GroupId`),
CONSTRAINT `isin_ibfk_1` FOREIGN KEY (`UserId`) REFERENCES `UserPlus`(`UserId`) ON
DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT `isin_ibfk_2` FOREIGN KEY (`GroupId`) REFERENCES `GroupPlus`(`GroupId`) ON
DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `IsIn`
-- 

LOCK TABLES `IsIn` WRITE;
/*!40000 ALTER TABLE `IsIn` DISABLE KEYS */;
INSERT INTO `IsIn` VALUES
(1,26),(2,26),(3,26),(4,26),(5,26),(6,26),(2,27),(3,28),(4,29),(5,30),(6,31),(7,32),(8,33),
,(9,34),(10,35);
/*!40000 ALTER TABLE `IsIn` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `LikesComment`
-- 

```

```

DROP TABLE IF EXISTS `LikesComment`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `LikesComment` (
  `CommentId` int(11) NOT NULL,
  `UserId` int(11) NOT NULL,
  PRIMARY KEY (`CommentId`,`UserId`),
  KEY `UserId` (`UserId`),
  CONSTRAINT `likescomment_ibfk_1` FOREIGN KEY (`CommentId`) REFERENCES `Comment`(`CommentId`) ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `likescomment_ibfk_2` FOREIGN KEY (`UserId`) REFERENCES `UserPlus`(`UserId`) ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `LikesComment`
-- 

LOCK TABLES `LikesComment` WRITE;
/*!40000 ALTER TABLE `LikesComment` DISABLE KEYS */;
INSERT INTO `LikesComment` VALUES
(1,1),(1,2),(1,3),(1,4),(1,5),(1,6),(1,7),(1,8),(1,9),(1,10),(1,11),(1,12),(1,13),(1,14),
(1,15),(1,16),(1,17),(1,18),(1,19),(1,20),(1,21),(1,22),(1,23),(1,24),(1,25);
/*!40000 ALTER TABLE `LikesComment` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `LikesPost`
-- 

DROP TABLE IF EXISTS `LikesPost`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `LikesPost` (
  `PostId` int(11) NOT NULL,
  `UserId` int(11) NOT NULL,
  PRIMARY KEY (`PostId`,`UserId`),
  KEY `UserId` (`UserId`),
  CONSTRAINT `likespost_ibfk_1` FOREIGN KEY (`PostId`) REFERENCES `Post`(`PostId`) ON
DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `likespost_ibfk_2` FOREIGN KEY (`UserId`) REFERENCES `UserPlus`(`UserId`)
ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `LikesPost`
-- 

LOCK TABLES `LikesPost` WRITE;
/*!40000 ALTER TABLE `LikesPost` DISABLE KEYS */;
INSERT INTO `LikesPost` VALUES
(1,1),(1,2),(1,3),(1,4),(1,5),(1,6),(1,7),(1,8),(1,9),(1,10),(1,11),(1,12),(1,13),(1,14),
(1,15),(1,16),(1,17),(1,18),(1,19),(1,20),(1,21),(1,22),(1,23),(1,24),(1,25);
/*!40000 ALTER TABLE `LikesPost` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Message`
-- 

```

```

DROP TABLE IF EXISTS `Message`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Message` (
  `MessageId` int(11) NOT NULL AUTO_INCREMENT,
  `DateSent` datetime DEFAULT NULL,
  `ReceiverId` int(11) DEFAULT NULL,
  `SenderId` int(11) DEFAULT NULL,
  `Subject` varchar(100) DEFAULT NULL,
  `Content` varchar(100) DEFAULT NULL,
  PRIMARY KEY (`MessageId`),
  KEY `ReceiverId` (`ReceiverId`),
  KEY `SenderId` (`SenderId`),
  CONSTRAINT `message_ibfk_1` FOREIGN KEY (`ReceiverId`) REFERENCES `UserPlus`(`UserId`),
  CONSTRAINT `message_ibfk_2` FOREIGN KEY (`SenderId`) REFERENCES `UserPlus`(`UserId`)
) ENGINE=InnoDB AUTO_INCREMENT=26 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `Message`
-- 

LOCK TABLES `Message` WRITE;
/*!40000 ALTER TABLE `Message` DISABLE KEYS */;
INSERT INTO `Message` VALUES (1,'2016-11-07 14:14:57',2,1,'subject','apples'),(2,'2016-11-07 14:14:57',3,2,'subject','one'),(3,'2016-11-07 14:14:57',4,3,'subject','q'),(4,'2016-11-07 14:14:57',5,4,'subject','e'),(5,'2016-11-07 14:14:57',6,5,'subject','y'),(6,'2016-11-07 14:14:57',7,6,'subject','er'),(7,'2016-11-07 14:14:57',8,7,'subject','dsgdfg'),(8,'2016-11-07 14:14:57',9,8,'subject','yetikty'),(9,'2016-11-07 14:14:57',10,9,'subject','raehuy56h46'),(10,'2016-11-07 14:14:57',11,10,'subject','rstj7e5jurt'),(11,'2016-11-07 14:14:57',12,11,'subject','jrtwjety6j'),(12,'2016-11-07 14:14:57',13,12,'subject','tyjrstyjkrsty'),(13,'2016-11-07 14:14:57',14,13,'subject','jkmrastyjsrthjurt6h'),(14,'2016-11-07 14:14:57',15,14,'subject','rthuertyjrstwjrtjyrtu'),(15,'2016-11-07 14:14:57',16,15,'subject','rt6h'),(16,'2016-11-07 14:14:57',17,16,'subject','56hurty6u46h'),(17,'2016-11-07 14:14:57',18,17,'subject','56hjnrt'),(18,'2016-11-07 14:14:57',19,18,'subject','jursyhju'),(19,'2016-11-07 14:14:57',20,19,'subject','rs6tjhdt6jrstj'),(20,'2016-11-07 14:14:57',21,20,'subject','srtyjdty'),(21,'2016-11-07 14:14:57',22,21,'subject','jrs6hj'),(22,'2016-11-07 14:14:57',23,22,'subject','rs6thj'),(23,'2016-11-07 14:14:57',24,23,'subject','htyj'),(24,'2016-11-07 14:14:57',25,24,'subject','tyje57tyjtyjty'),(25,'2016-11-07 14:14:57',1,25,'subject','jrj6');
/*!40000 ALTER TABLE `Message` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `PagePlus`
-- 

DROP TABLE IF EXISTS `PagePlus`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `PagePlus` (
  `PageId` int(11) NOT NULL,
  `PostCount` int(11) DEFAULT NULL,
  PRIMARY KEY (`PageId`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

```

/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `PagePlus` 
-- 

LOCK TABLES `PagePlus` WRITE;
/*!40000 ALTER TABLE `PagePlus` DISABLE KEYS */;
INSERT INTO `PagePlus` VALUES
(1,20),(2,0),(3,0),(4,0),(5,0),(6,0),(7,0),(8,0),(9,0),(10,0),(11,0),(12,0),(13,0),(14,0),
,(15,0),(16,0),(17,0),(18,0),(19,0),(20,0),(21,0),(22,0),(23,0),(24,0),(25,0),(26,0),(27,
0),(28,0),(29,0),(30,0),(31,0),(32,0),(33,0),(34,0),(35,0);
/*!40000 ALTER TABLE `PagePlus` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `PersonalPage` 
-- 

DROP TABLE IF EXISTS `PersonalPage`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `PersonalPage` (
  `PageId` int(11) NOT NULL AUTO_INCREMENT,
  `OwnerId` int(11) DEFAULT NULL,
  PRIMARY KEY (`PageId`),
  KEY `OwnerId` (`OwnerId`),
  CONSTRAINT `personalpage_ibfk_1` FOREIGN KEY (`OwnerId`) REFERENCES `UserPlus`(`UserId`)
) ENGINE=InnoDB AUTO_INCREMENT=26 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `PersonalPage` 
-- 

LOCK TABLES `PersonalPage` WRITE;
/*!40000 ALTER TABLE `PersonalPage` DISABLE KEYS */;
INSERT INTO `PersonalPage` VALUES
(1,1),(2,2),(3,3),(4,4),(5,5),(6,6),(7,7),(8,8),(9,9),(10,10),(11,11),(12,12),(13,13),(14,
,14),(15,15),(16,16),(17,17),(18,18),(19,19),(20,20),(21,21),(22,22),(23,23),(24,24),(25,
25);
/*!40000 ALTER TABLE `PersonalPage` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Post` 
-- 

DROP TABLE IF EXISTS `Post`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Post` (
  `PostId` int(11) NOT NULL AUTO_INCREMENT,
  `DateCreated` datetime DEFAULT NULL,
  `Content` varchar(100) DEFAULT NULL,
  `CommentCount` int(11) DEFAULT NULL,
  `AuthorId` int(11) DEFAULT NULL,
  PRIMARY KEY (`PostId`),
  KEY `AuthorId` (`AuthorId`),
  CONSTRAINT `post_ibfk_1` FOREIGN KEY (`AuthorId`) REFERENCES `UserPlus`(`UserId`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;
```

```

-- 
-- Dumping data for table `Post` 
-- 

LOCK TABLES `Post` WRITE;
/*!40000 ALTER TABLE `Post` DISABLE KEYS */;
INSERT INTO `Post` VALUES (1,'2016-11-07 14:14:57','envisioneer frictionless deliverables',10,1),(2,'2016-11-07 14:14:57','engineer back-end paradigms',0,2),(3,'2016-11-07 14:14:57','redefine efficient infrastructures',0,3),(4,'2016-11-07 14:14:57','embrace sticky experiences',0,4),(5,'2016-11-07 14:14:57','synthesize innovative niches',0,5),(6,'2016-11-07 14:14:57','engage compelling methodologies',0,6),(7,'2016-11-07 14:14:57','exploit dot-com platforms',0,7),(8,'2016-11-07 14:14:57','benchmark seamless portals',0,8),(9,'2016-11-07 14:14:57','utilize leading-edge networks',0,9),(10,'2016-11-07 14:14:57','generate collaborative interfaces',0,10),(11,'2016-11-07 14:14:57','visualize bleeding-edge mindshare',0,11),(12,'2016-11-07 14:14:57','drive virtual initiatives',0,12),(13,'2016-11-07 14:14:57','empower cutting-edge portals',0,13),(14,'2016-11-07 14:14:57','mesh revolutionary networks',0,14),(15,'2016-11-07 14:14:57','mesh granular metrics',0,15),(16,'2016-11-07 14:14:57','incentivize transparent ROI',0,16),(17,'2016-11-07 14:14:57','iterate back-end deliverables',0,17),(18,'2016-11-07 14:14:57','generate dynamic web services',0,18),(19,'2016-11-07 14:14:57','transform visionary eyeballs',0,19),(20,'2016-11-07 14:14:57','architect dot-com e-services',0,20);
/*!40000 ALTER TABLE `Post` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `PostedTo` 
-- 

DROP TABLE IF EXISTS `PostedTo`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `PostedTo` (
  `PostId` int(11) NOT NULL,
  `PageId` int(11) NOT NULL,
  PRIMARY KEY (`PageId`,`PostId`),
  KEY `PostId` (`PostId`),
  CONSTRAINT `postedto_ibfk_1` FOREIGN KEY (`PageId`) REFERENCES `PagePlus` (`PageId`) ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `postedto_ibfk_2` FOREIGN KEY (`PostId`) REFERENCES `Post` (`PostId`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `PostedTo` 
-- 

LOCK TABLES `PostedTo` WRITE;
/*!40000 ALTER TABLE `PostedTo` DISABLE KEYS */;
INSERT INTO `PostedTo` VALUES
(1,1),(2,1),(3,1),(4,1),(5,1),(6,1),(7,1),(8,1),(9,1),(10,1),(11,1),(12,1),(13,1),(14,1),
(15,1),(16,1),(17,1),(18,1),(19,1),(20,1);
/*!40000 ALTER TABLE `PostedTo` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Receive` 
-- 

DROP TABLE IF EXISTS `Receive`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
```

```

/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Receive` (
  `Receiver` int(11) NOT NULL,
  `MessageId` int(11) NOT NULL,
  PRIMARY KEY (`Receiver`, `MessageId`),
  KEY `MessageId` (`MessageId`),
  CONSTRAINT `receive_ibfk_1` FOREIGN KEY (`Receiver`) REFERENCES `UserPlus` (`UserId`)
ON DELETE NO ACTION ON UPDATE CASCADE,
  CONSTRAINT `receive_ibfk_2` FOREIGN KEY (`MessageId`) REFERENCES `Message`(`MessageId`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `Receive`
-- 

LOCK TABLES `Receive` WRITE;
/*!40000 ALTER TABLE `Receive` DISABLE KEYS */;
INSERT INTO `Receive` VALUES
(2,1),(3,2),(4,3),(5,4),(6,5),(7,6),(8,7),(9,8),(10,9),(11,10),(12,11),(13,12),(14,13),(15,14),(16,15),(17,16),(18,17),(19,18),(20,19),(21,20),(22,21),(23,22),(24,23),(25,24);
/*!40000 ALTER TABLE `Receive` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Sales`
-- 

DROP TABLE IF EXISTS `Sales`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `Sales` (
  `TransId` int(11) NOT NULL,
  `TransDate` date DEFAULT NULL,
  `TransTime` time DEFAULT NULL,
  `AdId` int(11) DEFAULT NULL,
  `NumOfUnits` int(11) DEFAULT NULL,
  `AccountNum` int(11) DEFAULT NULL,
  PRIMARY KEY (`TransId`),
  KEY `AdId` (`AdId`),
  CONSTRAINT `sales_ibfk_1` FOREIGN KEY (`AdId`) REFERENCES `AdData` (`AdId`) ON DELETE
NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

-- 
-- Dumping data for table `Sales`
-- 

LOCK TABLES `Sales` WRITE;
/*!40000 ALTER TABLE `Sales` DISABLE KEYS */;
INSERT INTO `Sales` VALUES (1,'2016-10-01','11:10:00',1,100,12341234),(2,'2016-10-02','11:10:00',2,10,11111111),(3,'2016-10-03','11:10:00',3,1,22222222),(4,'2016-11-03','11:10:00',3,1,33333333),(5,'2015-09-03','11:10:00',4,1,22222222),(6,'2016-10-03','11:10:00',5,19,222333333),(7,'2012-07-03','11:10:00',9,1,12342222),(8,'2011-10-23','11:10:00',9,1,12341111),(9,'2016-01-13','11:10:00',3,1,4321222),(10,'2012-06-03','11:10:00',3,1,33333333);
/*!40000 ALTER TABLE `Sales` ENABLE KEYS */;
UNLOCK TABLES;

-- 
-- Table structure for table `Send`
-- 
```

```

--  

DROP TABLE IF EXISTS `Send`;  

/*!40101 SET @saved_cs_client      = @@character_set_client */;  

/*!40101 SET character_set_client = utf8 */;  

CREATE TABLE `Send` (  

  `Sender` int(11) NOT NULL,  

  `MessageId` int(11) NOT NULL,  

  PRIMARY KEY (`Sender`, `MessageId`),  

  KEY `MessageId` (`MessageId`),  

  CONSTRAINT `send_ibfk_1` FOREIGN KEY (`Sender`) REFERENCES `UserPlus` (`UserId`) ON  

DELETE NO ACTION ON UPDATE CASCADE,  

  CONSTRAINT `send_ibfk_2` FOREIGN KEY (`MessageId`) REFERENCES `Message` (`MessageId`)  

ON DELETE CASCADE ON UPDATE CASCADE  

) ENGINE=InnoDB DEFAULT CHARSET=latin1;  

/*!40101 SET character_set_client = @saved_cs_client */;  

--  

-- Dumping data for table `Send`  

--  

LOCK TABLES `Send` WRITE;  

/*!40000 ALTER TABLE `Send` DISABLE KEYS */;  

INSERT INTO `Send` VALUES  

(1,1),(2,2),(3,3),(4,4),(5,5),(6,6),(7,7),(8,8),(9,9),(10,10),(11,11),(12,12),(13,13),(14  
,14),(15,15),(16,16),(17,17),(18,18),(19,19),(20,20),(21,21),(22,22),(23,23),(24,24);  

/*!40000 ALTER TABLE `Send` ENABLE KEYS */;  

UNLOCK TABLES;  

--  

-- Table structure for table `UserPlus`  

--  

DROP TABLE IF EXISTS `UserPlus`;  

/*!40101 SET @saved_cs_client      = @@character_set_client */;  

/*!40101 SET character_set_client = utf8 */;  

CREATE TABLE `UserPlus` (  

  `UserId` int(11) NOT NULL AUTO_INCREMENT,  

  `Password` char(20) DEFAULT NULL,  

  `FirstName` char(20) DEFAULT NULL,  

  `LastName` char(20) DEFAULT NULL,  

  `Address` char(50) DEFAULT NULL,  

  `City` char(60) DEFAULT NULL,  

  `State` char(20) DEFAULT NULL,  

  `ZipCode` int(11) DEFAULT NULL,  

  `Phone` char(10) DEFAULT NULL,  

  `Email` char(50) DEFAULT NULL,  

  `AccountNum` int(11) DEFAULT NULL,  

  `AccountCreationDate` datetime DEFAULT NULL,  

  `CreditCardNum` char(16) DEFAULT NULL,  

  `Preferences` varchar(50) DEFAULT NULL,  

  PRIMARY KEY (`UserId`)  

) ENGINE=InnoDB AUTO_INCREMENT=26 DEFAULT CHARSET=latin1;  

/*!40101 SET character_set_client = @saved_cs_client */;  

--  

-- Dumping data for table `UserPlus`  

--  

LOCK TABLES `UserPlus` WRITE;  

/*!40000 ALTER TABLE `UserPlus` DISABLE KEYS */;  

INSERT INTO `UserPlus` VALUES (1,'apples','Michael','Thorne','4363 Arrowood  
Drive','Jacksonville','FL',32216,'9044166609','MichaelCThorne@gmail.com',1,'2016-11-07'

```

14:14:57', '5443350608517143', 'applePicking'), (2, 'apples', 'Paul', 'Fodor', '2635 Simons Hollow Road', 'New York', 'NY', 10001, '5707512415', 'paulfodor@gmail.com', 2, '2016-11-07
 14:14:57', '4958858084473102', 'applePicking'), (3, 'apples', 'Michael', 'Kife', '885 Augusta Park', 'Charleston', 'WV', 25301, '9046366609', 'MichaelKife@gmail.com', 3, '2016-11-07
 14:14:57', '4370457802840195', 'applePicking'), (4, 'apples', 'Bob', 'Marvel', '1 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9044366619', 'bobmarvel@gmail.com', 4, '2016-11-07
 14:14:57', '4992869275848026', 'applePicking'), (5, 'apples', 'yay', 'grovey', '342 Arrowood Drive', 'Jacksonville', 'FL', 32216, '6044366609', 'yaygrovey@gmail.com', 5, '2016-11-07
 14:14:57', '4489636511827803', 'applePicking'), (6, 'apples', 'apple', 'seed', '321 Arrowood Drive', 'Jacksonville', 'FL', 32216, '3044366609', 'appleseed@gmail.com', 6, '2016-11-07
 14:14:57', '4349162290877844', 'applePicking'), (7, 'apples', 'new', 'you', '34 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9244366609', 'newyou@gmail.com', 7, '2016-11-07
 14:14:57', '4718671748810093', 'applePicking'), (8, 'apples', 'qqqq', 'lol', '399 Arrowood Drive', 'Jacksonville', 'FL', 32216, '5044366609', 'qqqlol@gmail.com', 8, '2016-11-07
 14:14:57', '4064305551916263', 'applePicking'), (9, 'apples', 'oop', 'yo', '9 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9084366609', 'oopyo@gmail.com', 9, '2016-11-07
 14:14:57', '4556094238457322', 'applePicking'), (10, 'apples', 'one', 'two', '100 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9047366609', 'onetwo@gmail.com', 10, '2016-11-07
 14:14:57', '4606913205667284', 'applePicking'), (11, 'apples', 'suretrip', 'forever', '4363 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9044386609', 'suretripforever@gmail.com', 11, '2016-11-07
 14:14:57', '4444224543026845', 'applePicking'), (12, 'apples', 'forever', 'young', '10101 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9244366609', 'foreveryoung@gmail.com', 12, '2016-11-07
 14:14:57', '4511410796714397', 'applePicking'), (13, 'apples', 'life', 'video', '3575 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9044346609', 'lifevideo@gmail.com', 13, '2016-11-07
 14:14:57', '4347655744177127', 'applePicking'), (14, 'apples', 'hit', 'rewind', '999 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9044365609', 'hitrewind@gmail.com', 14, '2016-11-07
 14:14:57', '4925225424543897', 'applePicking'), (15, 'apples', 'iwanna', 'forever', '11111 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9044366611', 'iwannaforever@gmail.com', 15, '2016-11-07
 14:14:57', '4684613424931728', 'applePicking'), (16, 'apples', 'ayyy', 'boy', '777 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9044311609', 'ayyyboy@gmail.com', 16, '2016-11-07
 14:14:57', '4467280523131221', 'applePicking'), (17, 'apples', 'kitchen', 'stove', '32232 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9114366609', 'kitchenstove@gmail.com', 17, '2016-11-07
 14:14:57', '4398508659825438', 'applePicking'), (18, 'apples', 'younger', 'year', '8888 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9022366609', 'youngeryear@gmail.com', 18, '2016-11-07
 14:14:57', '4256714925322579', 'applePicking'), (19, 'apples', 'applesseed', 'seedsofapples', '1471 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9045566609', 'applesseedseedsofapple@gmail.com', 19, '2016-11-07
 14:14:57', '4028364081915282', 'applePicking'), (20, 'apples', 'Michael', 'Bender', '4363 Bentley Drive', 'Jacksonville', 'FL', 32216, '9044666609', 'MichaelBender@gmail.com', 20, '2016-11-07
 14:14:57', '4665229547305113', 'applePicking'), (21, 'apples', 'Michael', 'Tashbook', '4363 Book Drive', 'Jacksonville', 'FL', 32216, '9010366609', 'MichaelTashbook@gmail.com', 21, '2016-11-07
 14:14:57', '4152320677939159', 'applePicking'), (22, 'apples', 'Richard', 'Mckenna', '4363 Boxman Drive', 'Jacksonville', 'FL', 32216, '9049166609', 'RichardMckenna@gmail.com', 22, '2016-11-07
 14:14:57', '4741260848579989', 'applePicking'), (23, 'apples', 'Leo', 'Backmire', '4363 CompSci Drive', 'Jacksonville', 'FL', 32216, '9082366609', 'LeoBackmire@gmail.com', 23, '2016-11-07
 14:14:57', '4258176354221789', 'applePicking'), (24, 'apples', 'Moms', 'Spaghetti', '4363 loud Drive', 'Jacksonville', 'FL', 32216, '8844366609', 'MomsSpaghetti@gmail.com', 24, '2016-11-07
 14:14:57', '4295992126620602', 'applePicking'), (25, 'apples', 'Opps', 'Gravity', '4363 gravity Drive', 'Jacksonville', 'FL', 32216, '9044106609', 'oppsGravity@gmail.com', 25, '2016-11-07
 14:14:57', '4765034221596741', 'applePicking');
 /*!40000 ALTER TABLE `UserPlus` ENABLE KEYS *;
 UNLOCK TABLES;
 /*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

 /*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
 /*!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 2016-11-07 14:23:32
```

Transactions

1. Register

```
INSERT into UserPlus( UserID, Password, FirstName, LastName, Address, City, State, ZipCode, Phone, Email, AccountNum, AccountCreationDate, CreditCardNum, Preferences) VALUES ( ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?);
```

Statements:

```
INSERT INTO UserPlus VALUES(1, 'apples', 'Michael', 'Thorne', '4363 Arrowood Drive', 'Jacksonville', 'FL', 32216, '9044166609', 'MichaelCThorne@gmail.com', 1, NOW(), '5443350608517143', 'applePicking');
```

```
INSERT INTO PagePlus(PageID, PostCount) VALUES(?, ?);
```

```
INSERT INTO PersonalPage(PageId, OwnerID) VALUES(?, ?);
```

```
INSERT INTO HasAPersonal(UserID, PersonalPageID) VALUES(?, ?);
```

Output:

```
SELECT * FROM UserPlus WHERE UserId = 1;
```

```
SELECT * FROM PersonalPage WHERE OwnerId = 1;
```

```
SELECT * FROM PagePlus WHERE PageId = 1;
```

```
SELECT * FROM HasAPersonal WHERE UserID = 1;
```

UserId	Password	FirstName	LastName	Address	City	State	ZipCode	Phone	Email	AccountNum	AccountCreationDate	CreditCardNum	Preferences
1	apples	Michael	Thorne	"4363 Arrowood Drive"	Jacksonville	FL	32216	9044166609	MichaelCThorne@gmail.com	1	"2016-11-07 17:02:58"	5443350608517143	applePicking

PageId	OwnerId	PageId	PostCount	UserId	PersonalPageId
1	1	1	20	1	1

2. Sign in and sign out

```
SELECT * FROM UserPlus WHERE userId=? AND password=?;
```

Statements:

```
SELECT * FROM UserPlus WHERE userId=1 AND password="apples";
```

Output:

UserId	Password	FirstName	LastName	Address	City	State	ZipCode	Phone	Email	AccountNum	AccountCreationDate	CreditCardNum	Preferences
1	apples	Michael	Thorne	"4363 Arrowood Drive"	Jacksonville	FL	32216	9044166609	MichaelCThorne@gmail.com	1	"2016-11-07 17:02:58"	5443350608517143	applePicking

```

1    apples Michael      Thorne "4363 Arrowood Drive"      Jacksonville FL      32216 9044166609
     MichaelCThorne@gmail.com 1      "2016-11-07 17:02:58"      5443350608517143 applePicking

```

3. Post messages into personal page

```
INSERT INTO POST(PostID, DateCreated, Content, CommentCount, AuthorID) values (?, ?, ?, ?, ?);
```

```
INSERT INTO PostedTo(PostID, PageID) values (?, ?);
```

Statements:

```
INSERT INTO Post (PostId, DateCreated, Content, CommentCount, AuthorId) VALUES (1, NOW(), 'envisioneer frictionless deliverables', 10, 1);
```

```
INSERT INTO PostedTo(PostID, PageID) VALUES (1, 1);
```

Output:

```
SELECT * FROM Post WHERE AuthorId = 1;
```

```
SELECT * FROM PostedTo WHERE PostID = 1;
```

PostId	DateCreated	Content	CommentCount	AuthorId	PostId	PageId
1	2016-11-10 21:42:19	envisioneer frictionless deliverables	10	1	1	1

4. Send a message

```
SELECT UserId From UserPlus WHERE UserId=?;
```

```
INSERT INTO Message(MessageID, DateSent, ReceiverID, SenderID, Subject, Content) values (?, ?, ?, ?, ?, ?);
```

```
INSERT INTO Send(Sender, MessageID) values (?, ?);
```

Statements:

```
INSERT INTO Message(MessageID, DateSent, ReceiverID, SenderID, Subject, Content) values (1, NOW(), 2, 1, "subject", "apples");
```

```
INSERT INTO Send(Sender, MessageID) values (1, 1);
```

```
SELECT * FROM Message WHERE SenderId = 1;
```

```
SELECT * FROM Send WHERE Sender = 1;
```

Output:

	MessageId	DateSent	ReceiverId	SenderId	Subject	Content	Sender	MessageId
▶	1	2016-11-07 17:03:04	2	1	subject	apples	1	1
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

5. Receive a message

```
SELECT UserId From UserPlus WHERE UserId=?;
```

```
INSERT INTO Receive(Receiver, MessageId) values (?, ?);
```

Statements:

```
SELECT UserId FROM UserPlus WHERE UserId=2;
```

```
INSERT INTO Receive(Receiver, MessageId) VALUES (2, 1);
```

Output:

Receiver	MessageId
2	1
NULL	NULL

6. Delete a message

```
DELETE FROM Message WHERE MessageID = ?;
```

Statements:

```
DELETE FROM Message WHERE MessageID = 1;
```

Output:

```
✓ 12 19:55:09 DELETE FROM Message WHERE MessageID = 1 1 row(s) affected 0.375 sec
```

7. Create Group

```
INSERT INTO GroupPlus(GroupID, GroupName, Owner, Type) values (?, ?, ?, ?);
```

```
INSERT INTO PagePlus(PageID, PostCount) values (?, ?);
```

```
INSERT INTO GroupPage(PageID, GroupID) values (?, ?);
```

```
INSERT INTO HasAGroupPage(GroupID, GroupPageID) values (?, ?);
```

```
INSERT INTO HasAccessToGroup(UserId, PageID, GroupID) values (?, ?, ?);
```

Statements:

```
INSERT INTO GroupPlus (GroupId, Owner, GroupName) VALUES (26, 1, 'Automated value-added process improvement');
```

```
INSERT INTO PagePlus (PageID, PostCount) VALUES (26, 0);
```

```
INSERT INTO GroupPage(PageID, GroupID) VALUES(26, 26);
```

```
INSERT INTO HasAGroupPage(GroupID, GroupPageID) VALUES(26, 26);
```

```
INSERT INTO HasAccessToGroup(UserId, AdderId, PageID, GroupID) VALUES(1, NULL, 26, 26);
```

Output:

GroupId	GroupName	Owner	Type	PageId	PostCount	PageId	GroupId	GroupId	GroupPageId	UserId	AdderId	PageId	GroupId
26	Automated value-added process improvement	1	NULL	26	0	26	26	26	26	1	NULL	26	26

8. Search for a user and add him to a group

```
SELECT * FROM HasAccessToGroup WHERE AdderID = ? AND GroupID = ?;  
INSERT INTO HasAccessToGroup(UserID, PageID, GroupID) values (/*Target_Id*/, ?, ?);
```

Statements:

```
SELECT * FROM HasAccessToGroup WHERE AdderID = NULL AND GroupID = 26 AND UserID = 1;  
INSERT INTO HasAccessToGroup(UserID, AdderID, PageID, GroupID) VALUES (11, 1, 26, 26);
```

Output:

UserId	AdderId	PageId	GroupId
11	1	26	26

9. Make a post

```
SELECT * FROM HasAPersonal WHERE UserID = ? AND PersonalPageID = ?; -- check if it is a personal page  
SELECT * FROM HasAccessToGroup WHERE AdderID = ? AND GroupId = ?; -- check if has access to group  
INSERT INTO PostedTo(PostID, PageID) values (?, ?); -- insertion
```

Statements:

```
SELECT * FROM HasAPersonal WHERE UserID = 1 AND PersonalPageID = 1;  
INSERT INTO Post (PostId, DateCreated, Content, CommentCount, AuthorId) VALUES (1, NOW(),  
'envisioneer frictionless deliverables', 10, 1);  
INSERT INTO PostedTo(PostID, PageID) VALUES(1, 1);
```

Output:

PostId	DateCreated	Content	CommentCount	AuthorId	PostId	PageId
1	2016-11-07 17:03:05	envisioneer frictionless deliverables	10	1	1	1

10. Comment on a post

```
INSERT INTO Comment(CommentID, DateCreated, Content, AuthorID) VALUES (?, ?, ?, ?);  
INSERT INTO CommentOn(CommentID, PostID) VALUES (?, ?);
```

Statements:

```
INSERT INTO Comment(CommentID, DateCreated, Content, AuthorID) VALUES (1, NOW(), '2', 1);  
INSERT INTO CommentOn(CommentID, PostID) VALUES(1, 1);
```

Output:

CommentId	DateCreated	Content	AuthorId	CommentId	PostId
1	2016-11-07 17:03:03	2	1	1	1

11. Like a post

```
INSERT INTO LikesPost(PostID, UserID) VALUES(?, ?);
```

Statements:

```
INSERT INTO LikesPost(PostID, UserID) VALUES (1, 1);
```

Output:

PostId	UserId
1	1
NULL	NULL

12. Like a comment

```
INSERT INTO LikesComment(CommentID, UserID) VALUES(?, ?);
```

Statements:

```
INSERT INTO LikesComment(CommentID, UserID) VALUES(1, 1);
```

Output:

```
SELECT * FROM LikesComment WHERE CommentID=1 AND UserID=1;
```

CommentId	UserId
1	1
NULL	NULL

13. Remove a user from a group

```
DELETE FROM HasAccessToGroup WHERE UserID = ? AND GroupID = ?;
```

Statements:

```
DELETE FROM HasAccessToGroup WHERE UserID = ? AND GroupID = ?;
```

Output:

```
24 20:52:43 DELETE FROM HasAccessToGroup WHERE UserID = 1 AND GroupID = 26 1 row(s) affected 0.078 sec
```

14. Remove a post

```
DELETE FROM PostedTo WHERE PostID = ? AND PageID = ?;
```

Statements:

```
DELETE FROM PostedTo WHERE PostID = ? AND PageID = ?; -- CASCADE will DELETE the post
```

Output:

29 20:56:50 DELETE FROM PostedTo WHERE PostID = 1 AND PageID = 1 1 row(s) affected 0.140 sec

15. Remove a comment

DELETE FROM CommentOn WHERE CommentID = ? AND PostID = ?;

Statements:

DELETE FROM CommentOn WHERE CommentID = 1 AND PostID = 1;

Output:

36 21:04:07 DELETE FROM CommentOn WHERE CommentID = 1 1 row(s) affected 0.125 sec

16. Unlike a post

DELETE FROM LikesPost WHERE PostID = ? AND UserID = ?;

Statements:

DELETE FROM LikesPost WHERE PostID = 1 AND UserID = 1;

Output:

39 21:10:26 DELETE FROM LikesPost WHERE PostID = 1 AND UserID = 1 1 row(s) affected 0.078 sec

17. Unlike a comment

DELETE FROM LikesComment WHERE CommentId = ? AND UserId = ?;

Statements:

DELETE FROM LikesComment WHERE CommentID = ? AND UserID = ?;

Output:

40 21:13:17 DELETE FROM LikesComment WHERE CommentID = 1 AND UserID = 1 1 row(s) affected 0.078 sec

18. Modify a post

UPDATE Post SET DateCreated = ?, Content = ?, CommentCount = ? WHERE PostId = ?;

Statements:

UPDATE Post SET DateCreated = NOW(), Content = "hey whats up?", CommentCount = 1 WHERE PostId = 2;

Output:

41 21:16:13 UPDATE Post SET DateCreated = NOW(), Content = "hey whats up?", CommentCount = 1 WHERE PostId = 2 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

PostId	DateCreated	Content	CommentCount	AuthorId
2	2016-11-10 21:16:13	hey whats up?	1	2

19. Modify a comment

```
UPDATE Comment SET DateCreated = NOW(), Content = "this is great" WHERE CommentId = 5;
```

Statements:

```
UPDATE Comment SET DateCreated = NOW(), Content = "this is great" WHERE CommentId = 5;
```

Output:

Before:

CommentId	DateCreated	Content	AuthorId
5	2016-11-10 21:21:20	looks good	5

After:

CommentId	DateCreated	Content	AuthorId
5	2016-11-10 21:21:40	this is great	5

20. Delete a group

```
DELETE FROM GroupPlus WHERE GroupId = ?;
```

Statements:

```
DELETE FROM GroupPlus WHERE GroupId = 31;
```

Output:

```
✓ 553 21:48:18 DELETE FROM GroupPlus WHERE GroupId = 31 1 row(s) affected
```

21. Add employee

```
-- Add Employee
INSERT INTO Employee(SSN ,LastName , FirstName, Address, City, State, ZipCode, Telephone, StartDate, VALUES (111111111, 'Fodor', 'Paul', '1 Paul St.', 'Fodor', 'NY' , '11111', '111111111', CURRENT_DATE())
```

22. Comment on a post on a group page

```
-- -- Comment on a post on a group page
#INSERT INTO Comment(CommentId, DateCreated, Content, AuthorId) VALUES (?, ?, ?, ?);
#INSERT INTO CommentOn(CommentId, PostId) VALUES (?, ?);
INSERT INTO Comment(CommentId, DateCreated, Content, AuthorId) VALUES (900, NOW(), 'Please get 100', 1);
INSERT INTO CommentOn(CommentId, PostId) VALUES (900, 1);

sql> INSERT INTO Comment(CommentId, DateCreated, Content, AuthorId) VALUES (900, NOW(), 'Please get 100', 1)
[2016-11-10 19:40:28] 1 row affected in 4ms
sql> INSERT INTO CommentOn(CommentId, PostId) VALUES (900, 1)
[2016-11-10 19:40:28] 1 row affected in 6ms
```

23. Delete employee

The screenshot shows the MySQL Workbench interface with the following details:

- Project:** ProfilePlus
- Structure:** Shows the database schema with tables like Employee, Comment, etc.
- SQL Editor:** Contains the SQL code:

```
-- Delete Information for an Employee
DELETE FROM Employee
WHERE SSN = 99999999;
```
- Database Console:** Shows the execution results of the query:

```
sql> DELETE FROM Employee
WHERE SSN = 99999999
[2016-11-10 21:44:46] 1 row affected in 4ms
```

24. Join group

The screenshot shows the MySQL Workbench interface. The left sidebar displays a project structure with files like AdData.csv, CommentOn.txt, and transactions.sql. The main area shows a SQL editor with the following code:

```
-- -- Join a group
#INSERT INTO HasAccessToGroup(UserID, AdderID, PageID, GroupID) VALUE (?, ?, ?, ?);
INSERT INTO HasAccessToGroup(UserID, AdderID, PageID, GroupID) VALUE (25, 1, 26, 26);
```

The code is highlighted in blue, indicating it's a query. Below the editor, the database console shows the execution results:

```
sql> INSERT INTO HasAccessToGroup(UserID, AdderID, PageID, GroupID) VALUE (25, 1, 26, 26)
[2016-11-10 22:09:57] 1 row affected in 5ms
```

25. Like a post from a group page

The screenshot shows the MySQL Workbench interface. The left sidebar displays a project structure with files like CreateDatascripts, MockDataSql, and transactions.sql. The main area shows a SQL editor with the following code:

```
-- -- Like a post on a group page
#INSERT INTO LikesPost(PostId, UserId) VALUES(?, ?);
INSERT INTO LikesPost(PostId, UserId) VALUES(2, 1);
```

The code is highlighted in blue, indicating it's a query. Below the editor, the database console shows the execution results:

```
sql> INSERT INTO LikesPost(PostId, UserId) VALUES(2, 1)
[2016-11-10 19:44:54] 1 row affected in 5ms
```

26. Like a comment from a group

The screenshot shows the MySQL Workbench interface. On the left, the file tree displays various SQL files and scripts under 'ProfilePlus'. In the center, the SQL editor window has the following content:

```
-- Like a comment on a group page
#INSERT INTO CommentOn(CommentId, PostID) VALUES(900, 20);
# Comment is now a comment on a post where it is in a group page
-- Like a comment on a group page
INSERT INTO LikesComment(CommentId, UserId) VALUES(900, 1);
SELECT * FROM LikesComment WHERE CommentID = 900;
```

Below the editor, the database console shows the execution of these statements:

```
sql> INSERT INTO LikesComment(CommentId, UserId) VALUES(900, 1)
[2016-11-10 20:06:45] 1 row affected in 6ms
sql> SELECT * FROM LikesComment WHERE CommentID = 900
[2016-11-10 20:06:45] 1 row retrieved starting from 1 in 13ms (execution: 8ms, fetching: 5ms)
```

27. Remove comment in a group

The screenshot shows the MySQL Workbench interface. On the left, the file tree displays various SQL files and scripts under 'ProfilePlus'. In the center, the SQL editor window has the following content:

```
-- Remove a comment in a group
#DELETE FROM Comment WHERE CommentId = ? AND AuthorId = ? ;
DELETE FROM Comment WHERE CommentId = 20 AND AuthorId = 25 ;
```

Below the editor, the database console shows the execution of the DELETE statement:

```
sql> DELETE FROM Post WHERE PostID = 20 AND AuthorID = 1
[2016-11-10 20:47:46] completed in 2ms
sql> DELETE FROM Comment WHERE CommentId = 20 AND AuthorId = 25
[2016-11-10 20:56:42] completed in 2ms
```

28. Remove a post from a group page

The screenshot shows the MySQL Workbench interface. On the left, there's a file tree with various files like 'CommentOn.txt', 'CreatesGroup.txt', etc., and a 'Profile+_Table_Generator.sql' file which is currently selected. Below the file tree is a database console window titled 'Database Console MySQL - ProfilePlus@localhost'. It has tabs for 'Output' and 'ProfilePlus.PostedTo'. The output tab shows the following SQL command and its execution results:

```
sql> DELETE FROM Post WHERE PostID = 20 AND AuthorID = 1
[2016-11-10 20:47:46] completed in 2ms
```

29. Rename a group

The screenshot shows the MySQL Workbench database console window titled 'Database Console MySQL - ProfilePlus@localhost'. It displays the following SQL command and its execution results:

```
sql> UPDATE GroupPlus SET GroupName = 'Applesauce' WHERE GroupId = 34
[2016-11-10 19:25:42] 1 row affected in 28ms
```

30. Select has access

The screenshot shows the MySQL Workbench interface. On the left, the project structure for 'Profile-' is visible, containing 'src' and 'rsrc' directories with various files like 'Entity_Mock_Data.sql' and 'MockPost.txt'. In the center, a query editor window titled 'profileplus' is open with the following SQL code:

```
1 # SELECT * FROM HasAccessToGroup WHERE AdderID = ? AND GroupId = ?;
2 SELECT * FROM HasAccessToGroup WHERE AdderID = 1 AND GroupId = 26;
```

Below the query editor, a database console window titled 'MySQL - ProfilePlus@localhost' shows the results of the query:

	UserID	AdderID	PageID	GroupID
1	11	1	26	26

31. Select has access to group

The screenshot shows the MySQL Workbench interface. On the left, the project structure for 'Profile-' is visible, containing 'src' and 'rsrc' directories with various files like 'Entity_Mock_Data.sql' and 'MockPost.txt'. In the center, a query editor window titled 'profileplus' is open with the following SQL code:

```
1 SELECT * FROM GroupPlus WHERE GroupID = 34;
```

Below the query editor, a database console window titled 'MySQL - ProfilePlus@localhost' shows the results of the query:

	GroupID	GroupName	Owner	Type
1	34	Applesauce	9	<null>

32. Select has personal page

The screenshot shows the MySQL Workbench interface. On the left, the project structure for 'Profile-' is visible, containing 'src' and 'rsrc' directories with various files like Entity_Mock_Data.sql, Relation_Mock_Data.sql, and sql_sequence_run.txt. The main window displays a SQL editor with the following query:

```
# SELECT * FROM HasAPersonal WHERE UserId = ? AND PersonalPageId = ?;
SELECT * FROM HasAPersonal WHERE UserId = 1 AND PersonalPageId = 1;
```

Below the editor is a database console showing the results of the query:

	User ID	Personal Page ID
1	1	1

33. Unjoin a group

The screenshot shows the MySQL Workbench interface. On the left, the project structure for 'Profile-' is visible, containing 'src' and 'rsrc' directories with various files. The main window displays a SQL editor with the following query:

```
-- Unjoin a group
#DELETE FROM HasAccessToGroup
##WHERE UserID = ? AND PageId = ? AND GroupID = ?;
-- Unjoin a group
DELETE FROM HasAccessToGroup
WHERE UserID = 25 AND PageId = 26 AND GroupID = 26;
```

Below the editor is a database console showing the results of the query:

```
sql> DELETE FROM HasAccessToGroup
WHERE UserID = 25 AND PageId = 26 AND GroupID = 26
[2016-11-10 22:11:31] 1 row affected in 4ms
```

34. Unlike a comment in a group page

The screenshot shows the MySQL Workbench interface. The left sidebar displays a project structure with various files like AdData.csv, CommentOn.txt, etc. In the center, a SQL editor window is open with the following code:

```
-- Unlike a comment in a group
DELETE FROM LikesComment WHERE CommentId = 1 AND UserId = 1;
```

Below the editor, the database console shows the execution results:

```
sql> DELETE FROM LikesComment WHERE CommentId = 1 AND UserId = 1
[2016-11-10 21:05:05] 1 row affected in 4ms
```

35. Unlike a post from a group page

The screenshot shows the MySQL Workbench interface. The left sidebar displays a project structure with various files like CommentOn.txt, CreatesGroup.txt, etc. In the center, a SQL editor window is open with the following code:

```
-- Unlike a post in a group
DELETE FROM LikesPost WHERE PostId = 1 AND UserId = 1;
```

Below the editor, the database console shows the execution results:

```
sql> DELETE FROM LikesPost WHERE PostId = 1 AND UserId = 1
[2016-11-10 21:03:36] 1 row affected in 5ms
```

36. Modify a comment in a group

The screenshot shows the MySQL Workbench interface. On the left, the 'Project' sidebar displays a file tree with various SQL files and CSV data files under the 'rsrc' folder. The main workspace shows a code editor with the following SQL script:

```
1 -- Modify a comment in a group
2 -- JDBC make sure that comment and user is in the group
3
4 UPDATE Comment
5 SET CommentId = 26, DateCreated = NOW(), Content = 'I want to get a 100'
6 WHERE CommentId = 25;
```

Below the code editor is a 'Database Console MySQL - ProfilePlus@localhost' window. It shows the execution of the same SQL update statement:

```
sql> UPDATE Comment
SET CommentId = 26, DateCreated = NOW(), Content = 'I want to get a 100'
WHERE CommentId = 25
[2016-11-10 21:23:06] 1 row affected in 4ms
```

37. Edit employee

The screenshot shows the MySQL Workbench interface. On the left, the 'Project' sidebar displays a file tree with various SQL files, CSV data files, and configuration files like '.gitignore' and 'README.md'. The main workspace shows a code editor with the following SQL update statement:

```
1 -- Edit Employ
2 UPDATE Employee
3 SET SSN = 999999999, LastName = 'KINGFODOR', FirstName = 'KINGPAUL', Address = '1 KING ST.', City
4 WHERE SSN = 11111111;
```

On the right, the 'Database' sidebar shows the 'Employee' table selected. Below the code editor is a 'Database Console MySQL - ProfilePlus@localhost' window. It shows the execution of the update statement:

```
sql> UPDATE Employee
SET SSN = 999999999, LastName = 'KINGFODOR', FirstName = 'KINGPAUL', Address = '1 KING ST.', City = 'KING', State = 'NY', ZipCode = '11373', Telephone = '999999999', StartDate = CURRENT_DATE, IsIn
WHERE SSN = 11111111
[2016-11-10 21:44:04] 1 row affected in 3ms
```

38. Modify a post in a group

The screenshot shows the MySQL Workbench interface. On the left, the 'Structure' sidebar displays a tree view of database objects:

- 1 Friends_Mock.sql
- 2 HasAccessToGroup_Mock.sql
- 3 HasGroupPage_Mock.sql
- 4 HasAPersonal_Mock.sql
- 5 LikesComment_Mock.sql
- 6 LikesPost_Mock.sql
- 7 PostedTo_Mock.sql
- 8 Entity_Mock_Data.sql
- 9 Relation_Mock_Data.sql
- 10 sql_sequence_run.txt

Below this, under the 'rsrc' folder, is a list of text files:

- AdData.csv
- CommentOn.txt
- CreatesGroup.txt
- EmployeeData.csv
- EveryUserHasPersonalPage.txt
- FriendsWith.txt
- HasAccessToGroup.txt
- HasGroupPage.txt
- LikesComment.txt
- LikesPost.txt
- MakesComment.txt
- MakesPost.txt

The main panel shows a SQL editor with the following code:

```
-- Modify a post in a group
-- JDBC make sure that post is in the group
#UPDATE Post
#SET PostID = ?, DateCreated = ?, Content = ?, CommentCount = ?
#WHERE PostId = ?;

UPDATE Post
SET PostID = 22, DateCreated = NOW(), Content = 'I want to get a 100 on this', CommentCount = 0
WHERE PostId = 20;
```

At the bottom, the 'Database Console MySQL – ProfilePlus@localhost' window shows the results of the executed queries:

```
sql> DELETE FROM LikesComment WHERE CommentId = 1 AND UserId = 1
[2016-11-10 21:05:05] 1 row affected in 4ms
sql> UPDATE Post
SET PostID = 22, DateCreated = NOW(), Content = 'I want to get a 100 on this', CommentCount = 0
WHERE PostId = 20
[2016-11-10 21:17:17] 1 row affected in 3ms
```

39. Obtain a sales report for a particular month

```
|mysql> SELECT * FROM Sales      WHERE MONTH(TransDate) = '10';
+-----+-----+-----+-----+-----+-----+
| TransId | TransDate | TransTime | AdId | NumOfUnits | AccountNum |
+-----+-----+-----+-----+-----+-----+
|       1 | 2016-10-01 | 11:10:00 |     1 |        100 | 12341234 |
|       2 | 2016-10-02 | 11:10:00 |     2 |         10 | 11111111 |
|       3 | 2016-10-03 | 11:10:00 |     3 |          1 | 22222222 |
|       6 | 2016-10-03 | 11:10:00 |     5 |         19 | 222333333 |
|       8 | 2011-10-23 | 11:10:00 |     9 |          1 | 12341111 |
|      11 | 2016-10-01 | 11:11:00 |     1 |        100 | 12341234 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

40. Produce a comprehensive listing of all items being advertised on the site -

41. Produce a list of transactions by item name or by user name

```
mysql> -- - Produce a list of transactions by item name or by user name
mysql> SELECT
-> *
-> FROM
-> Sales S, Buy B
-> WHERE
-> S.TransId = B.TransId AND
-> S.AdId = (SELECT A.AdId FROM AdData A WHERE A.ItemName = 'Google Car');
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| TransId | TransDate | TransTime | AdId | NumOfUnits | AccountNum | TransId | EmpId | UserId |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|     1 | 2016-10-01 | 11:10:00 |     1 |       100 | 12341234 |      1 | 153581835 |     1 |
|     1 | 2016-10-01 | 11:10:00 |     1 |       100 | 12341234 |      1 | 153581835 |     2 |
|    11 | 2016-10-01 | 11:11:00 |     1 |       100 | 12341234 |     11 | 153581835 |     1 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> SELECT
->     B.UserId, SUM(S.NumOfUnits * A.UnitPrice) AS total
-> FROM
->     AdData A, Buy B, Sales S
-> WHERE
->     S.TransId = B.TransId AND
->     S.AdId = A.AdId AND
->     B.UserId = ( SELECT U.UserId FROM UserPlus U WHERE U.LastName = 'Fodor' AND U.FirstName = 'Paul')
-> GROUP BY
->     B.UserId;
+-----+-----+
| UserId | total |
+-----+-----+
|     2 | 1010000 |
+-----+-----+
1 row in set (0.00 sec)
```

42. Produce a summary listing of revenue generated by a particular item, item type, or customer

```
mysql> -- - Produce a summary listing of revenue generated by a particular item, item type, or customer
mysql> SELECT
->     A.Itemname, SUM(S.NumOfUnits * A.UnitPrice) AS total
-> FROM
->     AdData A, Buy B, Sales S
-> WHERE
->     S.TransId = B.TransId AND
->     S.AdId = A.AdId AND
->     A.AdId = ( SELECT AdId FROM AdData A2 WHERE A2.ItemName = 'Jerrel')
-> GROUP BY
->     A.Itemname;
+-----+-----+
| Itemname | total |
+-----+-----+
| Jerrel   | 20000 |
+-----+-----+
1 row in set (0.00 sec)
```

```

mysql> SELECT
->     A.Type, SUM(S.NumOfUnits * A.UnitPrice) AS total
->  FROM
->      AdData A, Buy B, Sales S
-> WHERE
->  S.TransId = B.TransId AND
->  S.AdId = A.AdId AND
->  A.AdId in ( SELECT AdId FROM AdData A2 WHERE A2.Type = 'Cars')
-> GROUP BY
->  A.Type;
+-----+
| Type | total |
+-----+
| Cars | 1030000 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> SELECT
->     SUM(S.NumOfUnits * A.UnitPrice) AS total
->  FROM
->      AdData A, Buy B, Sales S
-> WHERE
->  S.TransId = B.TransId AND
->  S.AdId = A.AdId AND
->  B.UserId in (SELECT UserId FROM UserPlus U WHERE U.LastName = 'Fodor' AND U.FirstName = 'Paul')
-> GROUP BY
->  B.UserId;
+-----+
| total |
+-----+
| 1010000 |
+-----+
1 row in set (0.01 sec)

```

43. Determine which customer representative generated most total revenue

```

mysql> -- - Determine which customer representative generated most total revenue
mysql> SELECT
->     T.who, SUM(bought) AS total
->  FROM
->    (SELECT
->        B.EmpId AS who, (A.UnitPrice * S.NumOfUnits) AS bought
->     FROM
->        AdData A, Sales S, Buy B
->     WHERE
->        A.AdId = S.AdId
->        AND B.TransId = S.TransId) T
-> GROUP BY T.who
[ -> ORDER BY total DESC;
+-----+
| who | total |
+-----+
| 153581835 | 100040000 |
| 168375077 | 1000210 |
| 264939771 | 19010 |
| 269768789 | 10020 |
+-----+
4 rows in set (0.00 sec)

```

44. Determine which customer generated most total revenue

```
mysql> -- - Determine which customer generated most total revenue
mysql> SELECT
->     U.FirstName, U.LastName, SUM(sales) AS total
->     FROM
->     UserPlus U,
->     (SELECT
->         B.UserId AS who, (A.UnitPrice * S.NumOfUnits) AS sales
->     FROM
->         AdData A, Sales S, Buy B
->     WHERE
->         A.AdId = S.AdId
->         AND B.TransId = S.TransId) T
-> WHERE U.UserId = T.who
-> GROUP BY T.who
-> ORDER BY total DESC;
+-----+-----+-----+
| FirstName | LastName | total   |
+-----+-----+-----+
| yay       | grovey   | 100000000
| Paul      | Fodor     | 1010000
| Michael   | Thorne    | 20000
| apple     | seed      | 19000
| new       | you       | 10000
| qqqq      | lol       | 10000
| Michael   | Kife      | 210
| one       | two       | 10
| Bob       | Marvel    | 10
| oop       | yo        | 10
+-----+-----+-----+
10 rows in set (0.00 sec)
```

45. Produce a list of most active items

```
mysql> CREATE VIEW ActiveItems AS
->     SELECT
->         A.ItemName
->     FROM
->         AdData A
->     WHERE
->         (SELECT
->             COUNT(*)
->         FROM
->             Sales S
->         WHERE
->             S.AdId = A.AdId) > 20;
Query OK, 0 rows affected (0.02 sec)
```

46. Produce a list of all customers who have purchased a particular item

```
mysql> -- Produce a list of all customers who have purchased a particular item
mysql> CREATE VIEW ItemPurchasers AS
->     SELECT *
->     FROM
->         UserPlus U
->     WHERE
->         EXISTS (SELECT
->             *
->             FROM
->                 AdData A,
->                 Buy B,
->                 Sales S
->             WHERE
->                 A.AdId = 1 AND A.AdId = S.AdId
->                 AND S.TransId = B.TransId
->                 AND U.UserId = B.UserId);
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM ItemPurchasers
[   -> ;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| UserId | Password | FirstName | LastName | Address           | City      | State | ZipCode | Phone        | Email          | AccountNum | AccountCreationDate | Cr
editCardNum | Preferences |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | apples | Michael    | Thorne   | 4363 Arrowood Drive | Jacksonville | FL    | 32216 | 9044166609 | MichaelCThorne@gmail.com | 1 | 2016-11-07 14:14:57 | 54
43350608517143 | applePicking |
| 2 | apples | Paul       | Fodor    | 2635 Simons Hollow Road | New York | NY    | 10001 | 5707512415 | paulfodor@gmail.com | 2 | 2016-11-07 14:14:57 | 49
58858084473102 | applePicking |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

47. Produce a list of all items for a given company

```
mysql> CREATE VIEW CompanyItems AS
->     SELECT A.ItemName
->     FROM AdData A
[   ->         WHERE A.Company = 'google';
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM CompanyItems
[   -> ;
+-----+
| ItemName   |
+-----+
| Google Car |
| Google Server |
| Jerrel     |
+-----+
3 rows in set (0.00 sec)
```

48. Create and delete an advertisement

```
mysql> INSERT INTO AdData(AdId, EmpId, Type, Company, ItemName, Content, UnitPrice, NumOfAvaUnits)
[   -> VALUES (11, 269768789, 'Book', 'ABC', 'Competitive Programming', 'Book about competitive prog', 1000, 245);
Query OK, 1 row affected (0.00 sec)

mysql> DELETE FROM AdData WHERE AdId = 11;
Query OK, 1 row affected (0.00 sec)
```

49. Record a transaction

```
mysql> -- - Record a transaction
mysql> INSERT INTO Sales(TransId, TransDate, TransTime, AdId, NumOfUnits, AccountNum)
   -> VALUES (12, '2016-02-23', '14:24:21', 10, 2, 11111234);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Buy(TransId, EmpId, UserId)
[   -> VALUES (12, 168375077, 3);
Query OK, 1 row affected (0.00 sec)
```

50. Produce customer mailing lists

```
mysql> -- - Produce customer mailing lists
mysql> CREATE VIEW MailingList_Google AS
->     SELECT
->         A.Company, U.Email
->     FROM
->         Buy B,
->         Sales S,
->         AdData A,
->         UserPlus U
->     WHERE
->         B.TransId = S.TransId
->         AND B.UserId = U.UserId
->         AND A.AdId = S.AdId
->         AND A.Company = 'google';
Query OK, 0 rows affected (0.01 sec)

[mysql> SELECT * FROM MailingList_Google;
+-----+-----+
| Company | Email           |
+-----+-----+
| Google  | MichaelCThorne@gmail.com
| Google  | paulfodor@gmail.com
| Google  | MichaelCThorne@gmail.com
| Google  | MichaelKlife@gmail.com
| Google  | bobmarvel@gmail.com
| Google  | oopyo@gmail.com
| Google  | onetwo@gmail.com
| Google  | newyou@gmail.com
| Google  | qqqqlol@gmail.com
+-----+
9 rows in set (0.00 sec)
```

51. Produce a list of item suggestions for a given customer (based on that customer's past transactions)

```
mysql> -- - Produce a list of item suggestions for a given customer (based on that customer's past transactions)
mysql> SELECT
->     *
->     FROM
->         AdData A1
->     WHERE
->         A1.Type IN (SELECT
->             Type
->             FROM
->                 AdData A2,
->                 Buy B,
->                 Sales S
->             WHERE
->                 B.TransId = S.TransId
->                 AND S.AdId = A2.AdId
->                 AND B.UserId = 1);
+-----+-----+-----+-----+-----+-----+-----+
| AdId | EmpId | Type | Company | ItemName | Content          | UnitPrice | NumOfAvaUnits |
+-----+-----+-----+-----+-----+-----+-----+
| 1    | 153581835 | Cars | Google  | Google Car | First flying car | 100       | 100        |
| 2    | 168375077 | Cars | Apple   | Apple Car  | Second flying car | 100000    | 200        |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

52. Purchase one or more copies of an advertised item

```
mysql> INSERT INTO Sales VALUES(11, '2016-10-01', '11:11:00', 1, 100, 12341234);
Query OK, 1 row affected (0.00 sec)

[mysql> INSERT INTO Buy(TransId, EmpId, UserId) values (11, 153581835, 1);
Query OK, 1 row affected (0.01 sec)
```

53. Retrieve a customer's current groups

```
mysql> -- - A customer's current groups
mysql> CREATE VIEW UserGroups AS
->     SELECT
->         G.GroupName
->     FROM
->         GroupPlus G
->     WHERE
->         EXISTS( SELECT
->             *
->             FROM
->                 HasAccessToGroup H
->             WHERE
->                 H.UserID = 1 AND H.GroupID = G.GroupID);
Query OK, 0 rows affected (0.01 sec)

[mysql> SEELCT * FROM UserGroups;
ERROR 1064 (42000): You have an error in your SQL syntax; check
at line 1
[mysql> SELECT * FROM UserGroups;
+-----+
| GroupName
+-----+
| Automated value-added process improvement |
+-----+
1 row in set (0.00 sec)
```

54. Retrieve for each of a customer's accounts, the account history

```
mysql> CREATE VIEW AccountHistory AS
->     SELECT
->         *
->     FROM
->         Sales
->     WHERE
->         AccountNum = 11111111;
Query OK, 0 rows affected (0.02 sec)

[mysql> SELECT * FROM AccountHistory
[   -> ;
+-----+-----+-----+-----+-----+
| TransId | TransDate | TransTime | AdId | NumOfUnits | AccountNum |
+-----+-----+-----+-----+-----+
|      2 | 2016-10-02 | 11:10:00 |    2 |       10 | 11111111 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

55. Retrieve best-seller list of items

```
mysql> SELECT
->      *
->   FROM
->     Sales S,
->     (SELECT
->       COUNT(*) AS cnt, TransId
->     FROM
->       Buy B
->     GROUP BY B.TransId) C
-> WHERE
->     S.TransId = C.TransId
-> ORDER BY C.cnt DESC;
+-----+-----+-----+-----+-----+-----+-----+-----+
| TransId | TransDate | TransTime | AdId | NumOfUnits | AccountNum | cnt | TransId |
+-----+-----+-----+-----+-----+-----+-----+-----+
|    1 | 2016-10-01 | 11:10:00 |    1 |      100 | 12341234 |   2 |      1 |
|    2 | 2016-10-02 | 11:10:00 |    2 |       10 | 11111111 |   1 |      2 |
|    3 | 2016-10-03 | 11:10:00 |    3 |        1 | 22222222 |   1 |      3 |
|    4 | 2016-11-03 | 11:10:00 |    3 |        1 | 33333333 |   1 |      4 |
|    5 | 2015-09-03 | 11:10:00 |    4 |        1 | 22222222 |   1 |      5 |
|    6 | 2016-10-03 | 11:10:00 |    5 |      19 | 222333333 |   1 |      6 |
|    7 | 2012-07-03 | 11:10:00 |    9 |        1 | 12342222 |   1 |      7 |
|    8 | 2011-10-23 | 11:10:00 |    9 |        1 | 12341111 |   1 |      8 |
|    9 | 2016-01-13 | 11:10:00 |    3 |        1 | 4321222 |   1 |      9 |
|   10 | 2012-06-03 | 11:10:00 |    3 |        1 | 33333333 |   1 |     10 |
|   11 | 2016-10-01 | 11:11:00 |    1 |      100 | 12341234 |   1 |     11 |
|   12 | 2016-02-23 | 14:24:21 |   10 |        2 | 11111234 |   1 |     12 |
+-----+-----+-----+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)
```

56. Retrieve a personalized item suggestion list

```
-- -- Personalized item suggestion list
mysql> CREATE VIEW PersonalSuggestion AS
->   SELECT Company, ItemName, Content, UnitPrice FROM AdData A1
->   WHERE A1.Type IN (
->     SELECT Type
->     FROM AdData A2, Buy B, Sales S
->     WHERE B.TransId = S.TransId AND S.AdId = A2.AdId AND B.UserId = 1);
Query OK, 0 rows affected (0.01 sec)

[mysql]> SELECT * FROM PersonalSuggestion
[   -> ;
+-----+-----+-----+-----+
| Company | ItemName | Content | UnitPrice |
+-----+-----+-----+-----+
| Google | Google Car | First flying car | 100 |
| Apple | Apple Car | Second flying car | 100000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```