

## SQL Script with queries (DML and DDL)

```
CREATE DATABASE IF NOT EXISTS `olap_bookshop` /*!40100 DEFAULT CHARACTER SET utf8mb4
COLLATE utf8mb4_0900_ai_ci */ /*!80016 DEFAULT ENCRYPTION='N' */;

USE `olap_bookshop`;

-- MySQL dump 10.13 Distrib 8.0.22, for Win64 (x86_64)

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-- Host: localhost Database: olap_bookshop

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-- Server version      8.0.22

/*!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 */;

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-- Table structure for table `books`

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DROP TABLE IF EXISTS `books`;

/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `books` (
  `ISBN` double NOT NULL,
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`Title` varchar(100) NOT NULL,

`Price` double NOT NULL,

PRIMARY KEY (`ISBN`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

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

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-- Dumping data for table `books`

--

LOCK TABLES `books` WRITE;

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

INSERT INTO `books` VALUES (9702833303,'Rainy day friends',45),(9702833311,'Book 11 for Rainy
day',75),(9702833319,'Book 19 day friends',65),(9703746207,'Paradise Sky by Jose
Lansdale',145),(9703859304,'Crazy Rich Asians',1234.5),(9703859312,'Book 12 for Crazy Rich
Asians',124.5),(9703859320,'Book 20 Asians',1434.5),(9703859321,'Book 21 for the
Bible',1434.5),(9706279301,'A Gentleman Never Keeps Score',384),(9706279309,'Book 9 for A
Gentleman',344),(9706279317,'Book 17 Keeps Score',314),(9728304802,'Texas
Glory',94.5),(9728304810,'Book 10 for Texas',84.5),(9728304818,'Book 18
Glory',84.5),(9729473006,'The spy and the traitor',200),(9729473014,'Book 14 for the spy and the
traitor',240),(9739482708,'Meet Camaro from the Nigh Charter',165.99),(9739482716,'Book 16 for
the Nigh Charter',125.99),(9793937405,'Tell me you are mine',23.6),(9793937413,'Book 13 for
you',23.6);

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

UNLOCK TABLES;

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-- Table structure for table `day`

--

DROP TABLE IF EXISTS `day`;

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

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `day` (

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`Num_Day` int DEFAULT NULL,

`Day_ID` int NOT NULL,

`Month_ID` int DEFAULT NULL,

`day` varchar(45) DEFAULT NULL,

PRIMARY KEY (`Day_ID`),

KEY `Month_ID` (`Month_ID`),

CONSTRAINT `day_ibfk_1` FOREIGN KEY (`Month_ID`) REFERENCES `month` (`Month_ID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

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

--

-- Dumping data for table `day`

--

LOCK TABLES `day` WRITE;

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

INSERT INTO `day` VALUES
(1,1,1,'sunday'),(2,2,1,'monday'),(3,3,1,'tuesday'),(4,4,1,'wednesday'),(5,5,1,'thursday'),(6,6,1,'friday'),
(7,7,1,'saturday'),(8,8,1,'sunday'),(9,9,1,'monday'),(10,10,1,'tuesday'),(11,11,1,'wednesday'),(12,12,
1,'thursday'),(13,13,1,'friday'),(14,14,1,'saturday'),(15,15,1,'sunday'),(16,16,1,'monday'),(17,17,1,'tue
sday'),(18,18,1,'wednesday'),(19,19,1,'thursday'),(20,20,1,'friday'),(21,21,1,'saturday'),(22,22,1,'sund
ay'),(23,23,1,'monday'),(24,24,1,'tuesday'),(25,25,1,'wednesday'),(26,26,1,'thursday'),(27,27,1,'friday'),
(28,28,1,'saturday'),(29,29,1,'sunday'),(30,30,1,'monday'),(31,31,1,'tuesday'),(1,32,2,'wednesday'),
(2,33,2,'thursday'),(3,34,2,'friday'),(4,35,2,'saturday'),(5,36,2,'sunday'),(6,37,2,'monday'),(7,38,2,'tue
sday'),(8,39,2,'wednesday'),(9,40,2,'thursday'),(10,41,2,'friday'),(11,42,2,'saturday'),(12,43,2,'sunday'),
(13,44,2,'monday'),(14,45,2,'tuesday'),(15,46,2,'wednesday'),(16,47,2,'thursday'),(17,48,2,'friday'),(
18,49,2,'saturday'),(19,50,2,'sunday'),(20,51,2,'monday'),(21,52,2,'tuesday'),(22,53,2,'wednesday'),(2
3,54,2,'thursday'),(24,55,2,'friday'),(25,56,2,'saturday'),(26,57,2,'sunday'),(27,58,2,'monday'),(28,59,
2,'tuesday'),(1,60,3,'wednesday'),(2,61,3,'thursday'),(3,62,3,'friday'),(4,63,3,'saturday'),(5,64,3,'sund
ay'),(6,65,3,'monday'),(7,66,3,'tuesday'),(8,67,3,'wednesday'),(9,68,3,'thursday'),(10,69,3,'friday'),(11
,70,3,'saturday'),(12,71,3,'sunday'),(13,72,3,'monday'),(14,73,3,'tuesday'),(15,74,3,'wednesday'),(16,
75,3,'thursday'),(17,76,3,'friday'),(18,77,3,'saturday'),(19,78,3,'sunday'),(20,79,3,'monday'),(21,80,3,'
tuesday'),(22,81,3,'wednesday'),(23,82,3,'thursday'),(24,83,3,'friday'),(25,84,3,'saturday'),(26,85,3,'s
unday'),(27,86,3,'monday'),(28,87,3,'tuesday'),(29,88,3,'wednesday'),(30,89,3,'thursday'),(31,90,3,'fri
day'),(1,91,4,'saturday'),(2,92,4,'sunday'),(3,93,4,'monday'),(4,94,4,'tuesday'),(5,95,4,'wednesday'),(6
,96,4,'thursday'),(7,97,4,'friday'),(8,98,4,'saturday'),(9,99,4,'sunday'),(10,100,4,'monday'),(11,101,4,'t
uesday'),(12,102,4,'wednesday'),(13,103,4,'thursday'),(14,104,4,'friday'),(15,105,4,'saturday'),(16,10
6,4,'sunday'),(17,107,4,'monday'),(18,108,4,'tuesday'),(19,109,4,'wednesday'),(20,110,4,'thursday'),(
21,111,4,'friday'),(22,112,4,'saturday'),(23,113,4,'sunday'),(24,114,4,'monday'),(25,115,4,'tuesday'),(

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26,116,4,'wednesday'),(27,117,4,'thursday'),(28,118,4,'friday'),(29,119,4,'saturday'),(30,120,4,'sunday'),(1,121,5,'monday'),(2,122,5,'tuesday'),(3,123,5,'wednesday'),(4,124,5,'thursday'),(5,125,5,'friday'),(6,126,5,'saturday'),(7,127,5,'sunday'),(8,128,5,'monday'),(9,129,5,'tuesday'),(10,130,5,'wednesday'),(11,131,5,'thursday'),(12,132,5,'friday'),(13,133,5,'saturday'),(14,134,5,'sunday'),(15,135,5,'monday'),(16,136,5,'tuesday'),(17,137,5,'wednesday'),(18,138,5,'thursday'),(19,139,5,'friday'),(20,140,5,'saturday'),(21,141,5,'sunday'),(22,142,5,'monday'),(23,143,5,'tuesday'),(24,144,5,'wednesday'),(25,145,5,'thursday'),(26,146,5,'friday'),(27,147,5,'saturday'),(28,148,5,'sunday'),(29,149,5,'monday'),(30,150,5,'tuesday'),(31,151,5,'wednesday'),(1,152,6,'thursday'),(2,153,6,'friday'),(3,154,6,'saturday'),(4,155,6,'sunday'),(5,156,6,'monday'),(6,157,6,'tuesday'),(7,158,6,'wednesday'),(8,159,6,'thursday'),(9,160,6,'friday'),(10,161,6,'saturday'),(11,162,6,'sunday'),(12,163,6,'monday'),(13,164,6,'tuesday'),(14,165,6,'wednesday'),(15,166,6,'thursday'),(16,167,6,'friday'),(17,168,6,'saturday'),(18,169,6,'sunday'),(19,170,6,'monday'),(20,171,6,'tuesday'),(21,172,6,'wednesday'),(22,173,6,'thursday'),(23,174,6,'friday'),(24,175,6,'saturday'),(25,176,6,'sunday'),(26,177,6,'monday'),(27,178,6,'tuesday'),(28,179,6,'wednesday'),(29,180,6,'thursday'),(30,181,6,'friday'),(1,182,7,'saturday'),(2,183,7,'sunday'),(3,184,7,'monday'),(4,185,7,'tuesday'),(5,186,7,'wednesday'),(6,187,7,'thursday'),(7,188,7,'friday'),(8,189,7,'saturday'),(9,190,7,'sunday'),(10,191,7,'monday'),(11,192,7,'tuesday'),(12,193,7,'wednesday'),(13,194,7,'thursday'),(14,195,7,'friday'),(15,196,7,'saturday'),(16,197,7,'sunday'),(17,198,7,'monday'),(18,199,7,'tuesday'),(19,200,7,'wednesday'),(20,201,7,'thursday'),(21,202,7,'friday'),(22,203,7,'saturday'),(23,204,7,'sunday'),(24,205,7,'monday'),(25,206,7,'tuesday'),(26,207,7,'wednesday'),(27,208,7,'thursday'),(28,209,7,'friday'),(29,210,7,'saturday'),(30,211,7,'sunday'),(31,212,7,'monday'),(1,213,8,'tuesday'),(2,214,8,'wednesday'),(3,215,8,'thursday'),(4,216,8,'friday'),(5,217,8,'saturday'),(6,218,8,'sunday'),(7,219,8,'monday'),(8,220,8,'tuesday'),(9,221,8,'wednesday'),(10,222,8,'thursday'),(11,223,8,'friday'),(12,224,8,'saturday'),(13,225,8,'sunday'),(14,226,8,'monday'),(15,227,8,'tuesday'),(16,228,8,'wednesday'),(17,229,8,'thursday'),(18,230,8,'friday'),(19,231,8,'saturday'),(20,232,8,'sunday'),(21,233,8,'monday'),(22,234,8,'tuesday'),(23,235,8,'wednesday'),(24,236,8,'thursday'),(25,237,8,'friday'),(26,238,8,'saturday'),(27,239,8,'sunday'),(28,240,8,'monday'),(29,241,8,'tuesday'),(30,242,8,'wednesday'),(31,243,8,'thursday'),(1,244,9,'friday'),(2,245,9,'saturday'),(3,246,9,'sunday'),(4,247,9,'monday'),(5,248,9,'tuesday'),(6,249,9,'wednesday'),(7,250,9,'thursday'),(8,251,9,'friday'),(9,252,9,'saturday'),(10,253,9,'sunday'),(11,254,9,'monday'),(12,255,9,'tuesday'),(13,256,9,'wednesday'),(14,257,9,'thursday'),(15,258,9,'friday'),(16,259,9,'saturday'),(17,260,9,'sunday'),(18,261,9,'monday'),(19,262,9,'tuesday'),(20,263,9,'wednesday'),(21,264,9,'thursday'),(22,265,9,'friday'),(23,266,9,'saturday'),(24,267,9,'sunday'),(25,268,9,'monday'),(26,269,9,'tuesday'),(27,270,9,'wednesday'),(28,271,9,'thursday'),(29,272,9,'friday'),(30,273,9,'saturday'),(1,274,10,'sunday'),(2,275,10,'monday'),(3,276,10,'tuesday'),(4,277,10,'wednesday'),(5,278,10,'thursday'),(6,279,10,'friday'),(7,280,10,'saturday'),(8,281,10,'sunday'),(9,282,10,'monday'),(10,283,10,'tuesday'),(11,284,10,'wednesday'),(12,285,10,'thursday'),(13,286,10,'friday'),(14,287,10,'saturday'),(15,288,10,'sunday'),(16,289,10,'monday'),(17,290,10,'tuesday'),(18,291,10,'wednesday'),(19,292,10,'thursday'),(20,293,10,'friday'),(21,294,10,'saturday'),(22,295,10,'sunday'),(23,296,10,'monday'),(24,297,10,'tuesday'),(25,298,10,'wednesday'),(26,299,10,'thursday'),(27,300,10,'friday'),(28,301,10,'saturday'),(29,302,10,'sunday'),(30,303,10,'monday'),(31,304,10,'tuesday'),(1,305,11,'wednesday'),(2,306,11,'thursday'),(3,307,11,'friday'),(4,308,11,'saturday'),(5,309,11,'sunday'),(6,310,11,'monday'),(7,311,11,'tuesday'),(8,312,11,'wednesday'),(9,313,11,'thursday'),(10,314,11,'friday'),(11,315,11,'saturday'),(12,316,11,'sunday'),(13,317,11,'monday'),(14,318,11,'tuesday'),(15,319,11,'wednesday'),(16,320,11,'thursday'),(17,321,11,'friday'),(18,322,11,'saturday'),(19,323,11,'sunday'),(20,324,11,'monday'),(21,325,11,'tuesday'),(22,326,11,'wednesday'),(23,327,11,'thursday'),(24,328,11,'friday'),(25,329,11,'saturday'),(26,330,11,'sunday'),(27,331,11,'monday'),(28,332,11,'tuesday'),(29,333,11,'wednesday'),(30,334,11,'thursday'),(1,335,12,'friday'),(2,336,12,'saturday'),(3,337,12,'sunday'),(4,338,12,'monday'),(5,339,12,'tuesday'),(6,340,12,'wednesday'),(7,341,12,'thursday'),(8,342,12,'friday'),(9,343,12,'saturday'),(10,344,12,'sunday'),(11,345,12,'monday'),(12,346,12,'tuesday'),(13,347,12,'wednesday'),(14,348,12,'thursday'),(15,349,12,'friday'),(16,350,12,'saturday'),(17,351,12,'sunday'),(18,352,12,'monday'),(19,353,12,'tuesday'),(20,354,12,'wednesday'),(21,355,12,'thursday'),(22,356,12,'friday'),(23,357,12,'saturday'),(24,358,12,'sunday'),(25,359,12,'monday'),(26,360,12,'tuesday'),(27,361,12,'wednesday'),(28,362,12,'thursday'),(29,363,12,'friday'),(30,364,12,'saturday'),(31,365,12,'sunday'),(1,366,13,'monday'),(2,367,13,'tuesday'),(3,368,13,'wednesday'),(4,369,13,'thursday'),(5,370,13,'friday'),(6,371,13,'saturday'),(7,372,13,'sunday'),(8,373,13,'monday'),(9,374,13,'tuesday'),(10,375,13,'wednesday'),(11,376,13,'thursday'),(12,377,13,'friday'),(13,378,13,'saturday'),(14,379,13,'sunday'),(15,380,13,'monday'),(16,381,13,'tuesday'),(17,382,13,'wednesday'),(18,383,13,'thursday'),(19,384,13,'friday'),(20,385,13,'saturday'),(21,386,13,'sunday'),(22,387,13,'monday'),(23,388,13,'tuesday'),(24,389,13,'wednesday'),(25,390,13,'thursday'),(26,391,13,'friday'),(27,392,13,'saturday'),(28,393,13,'sunday'),(29,394,13,'monday'),(30,395,13,'tuesday'),(31,396,13,'wednesday'),(1,397,14,'thursday'),(2,398,14,'friday'),(3,399,14,'saturday'),(4,400,14,'sunday'),(5,401,14,'monday'),(6,402,14,'tuesday'),(7,403,14,'wednesday'),(8,404,14,'thursday'),(9,405,14,'friday'),(10,406,14,'saturday'),(11,407,14,'sunday'),(12,408,14,'monday'),(13,409,14,'tuesday'),(14,410,14,'wednesday'),(15,411,14,'thursday'),(16,412,14,'friday'),(17,413,14,'saturday'),(18,414,14,'sunday'),(19,415,14,'monday'),(20,416,14,'tuesday'),(21,417,14,'wednesday'),(22,418,14,'thursday'),(23,419,14,'friday'),(24,420,14,'saturday'),(25,421,14,'sunday'),(26,422,14,'monday'),(27,423,14,'tuesday'),(28,424,14,'wednesday'),(29,425,14,'thursday'),(30,426,14,'friday'),(31,427,14,'saturday'),(1,428,15,'sunday'),(2,429,15,'monday'),(3,430,15,'tuesday'),(4,431,15,'wednesday'),(5,432,15,'thursday'),(6,433,15,'friday'),(7,434,15,'saturday'),(8,435,15,'sunday'),(9,436,15,'monday'),(10,437,15,'tuesday'),(11,438,15,'wednesday'),(12,439,15,'thursday'),(13,440,15,'friday'),(14,441,15,'saturday'),(15,442,15,'sunday'),(16,443,15,'monday'),(17,444,15,'tuesday'),(18,445,15,'wednesday'),(19,446,15,'thursday'),(20,447,15,'friday'),(21,448,15,'saturday'),(22,449,15,'sunday'),(23,450,15,'monday'),(24,451,15,'tuesday'),(25,452,15,'wednesday'),(26,453,15,'thursday'),(27,454,15,'friday'),(28,455,15,'saturday'),(29,456,15,'sunday'),(30,457,15,'monday'),(31,458,15,'tuesday'),(1,459,16,'wednesday'),(2,460,16,'thursday'),(3,461,16,'friday'),(4,462,16,'saturday'),(5,463,16,'sunday'),(6,464,16,'monday'),(7,465,16,'tuesday'),(8,466,16,'wednesday'),(9,467,16,'thursday'),(10,468,16,'friday'),(11,469,16,'saturday'),(12,470,16,'sunday'),(13,471,16,'monday'),(14,472,16,'tuesday'),(15,473,16,'wednesday'),(16,474,16,'thursday'),(17,475,16,'friday'),(18,476,16,'saturday'),(19,477,16,'sunday'),(20,478,16,'monday'),(21,479,16,'tuesday'),(22,480,16,'wednesday'),(23,481,16,'thursday'),(24,482,16,'friday'),(25,483,16,'saturday'),(26,484,16,'sunday'),(27,485,16,'monday'),(28,486,16,'tuesday'),(29,487,16,'wednesday'),(30,488,16,'thursday'),(31,489,16,'friday'),(1,490,17,'saturday'),(2,491,17,'sunday'),(3,492,17,'monday'),(4,493,17,'tuesday'),(5,494,17,'wednesday'),(6,495,17,'thursday'),(7,496,17,'friday'),(8,497,17,'saturday'),(9,498,17,'sunday'),(10,499,17,'monday'),(11,500,17,'tuesday'),(12,501,17,'wednesday'),(13,502,17,'thursday'),(14,503,17,'friday'),(15,504,17,'saturday'),(16,505,17,'sunday'),(17,506,17,'monday'),(18,507,17,'tuesday'),(19,508,17,'wednesday'),(20,509,17,'thursday'),(21,510,17,'friday'),(22,511,17,'saturday'),(23,512,17,'sunday'),(24,513,17,'monday'),(25,514,17,'tuesday'),(26,515,17,'wednesday'),(27,516,17,'thursday'),(28,517,17,'friday'),(29,518,17,'saturday'),(30,519,17,'sunday'),(31,520,17,'monday'),(1,521,18,'tuesday'),(2,522,18,'wednesday'),(3,523,18,'thursday'),(4,524,18,'friday'),(5,525,18,'saturday'),(6,526,18,'sunday'),(7,527,18,'monday'),(8,528,18,'tuesday'),(9,529,18,'wednesday'),(10,530,18,'thursday'),(11,531,18,'friday'),(12,532,18,'saturday'),(13,533,18,'sunday'),(14,534,18,'monday'),(15,535,18,'tuesday'),(16,536,18,'wednesday'),(17,537,18,'thursday'),(18,538,18,'friday'),(19,539,18,'saturday'),(20,540,18,'sunday'),(21,541,18,'monday'),(22,542,18,'tuesday'),(23,543,18,'wednesday'),(24,544,18,'thursday'),(25,545,18,'friday'),(26,546,18,'saturday'),(27,547,18,'sunday'),(28,548,18,'monday'),(29,549,18,'tuesday'),(30,550,18,'wednesday'),(31,551,18,'thursday'),(1,552,19,'friday'),(2,553,19,'saturday'),(3,554,19,'sunday'),(4,555,19,'monday'),(5,556,19,'tuesday'),(6,557,19,'wednesday'),(7,558,19,'thursday'),(8,559,19,'friday'),(9,560,19,'saturday'),(10,561,19,'sunday'),(11,562,19,'monday'),(12,563,19,'tuesday'),(13,564,19,'wednesday'),(14,565,19,'thursday'),(15,566,19,'friday'),(16,567,19,'saturday'),(17,568,19,'sunday'),(18,569,19,'monday'),(19,570,19,'tuesday'),(20,571,19,'wednesday'),(21,572,19,'thursday'),(22,573,19,'friday'),(23,574,19,'saturday'),(24,575,19,'sunday'),(25,576,19,'monday'),(26,577,19,'tuesday'),(27,578,19,'wednesday'),(28,579,19,'thursday'),(29,580,19,'friday'),(30,581,19,'saturday'),(31,582,19,'sunday'),(1,583,20,'monday'),(2,584,20,'tuesday'),(3,585,20,'wednesday'),(4,586,20,'thursday'),(5,587,20,'friday'),(6,588,20,'saturday'),(7,589,20,'sunday'),(8,590,20,'monday'),(9,591,20,'tuesday'),(10,592,20,'wednesday'),(11,593,20,'thursday'),(12,594,20,'friday'),(13,595,20,'saturday'),(14,596,20,'sunday'),(15,597,20,'monday'),(16,598,20,'tuesday'),(17,599,20,'wednesday'),(18,600,20,'thursday'),(19,601,20,'friday'),(20,602,20,'saturday'),(21,603,20,'sunday'),(22,604,20,'monday'),(23,605,20,'tuesday'),(24,606,20,'wednesday'),(25,607,20,'thursday'),(26,608,20,'friday'),(27,609,20,'saturday'),(28,610,20,'sunday'),(29,611,20,'monday'),(30,612,20,'tuesday'),(31,613,20,'wednesday'),(1,614,21,'thursday'),(2,615,21,'friday'),(3,616,21,'saturday'),(4,617,21,'sunday'),(5,618,21,'monday'),(6,619,21,'tuesday'),(7,620,21,'wednesday'),(8,621,21,'thursday'),(9,622,21,'friday'),(10,623,21,'saturday'),(11,624,21,'sunday'),(12,625,21,'monday'),(13,626,21,'tuesday'),(14,627,21,'wednesday'),(15,628,21,'thursday'),(16,629,21,'friday'),(17,630,21,'saturday'),(18,631,21,'sunday'),(19,632,21,'monday'),(20,633,21,'tuesday'),(21,634,21,'wednesday'),(22,635,21,'thursday'),(23,636,21,'friday'),(24,637,21,'saturday'),(25,638,21,'sunday'),(26,639,21,'monday'),(27,640,21,'tuesday'),(28,641,21,'wednesday'),(29,642,21,'thursday'),(30,643,21,'friday'),(31,644,21,'saturday'),(1,645,22,'sunday'),(2,646,22,'monday'),(3,647,22,'tuesday'),(4,648,22,'wednesday'),(5,649,22,'thursday'),(6,650,22,'friday'),(7,651,22,'saturday'),(8,652,22,'sunday'),(9,653,22,'monday'),(10,654,22,'tuesday'),(11,655,22,'wednesday'),(12,656,22,'thursday'),(13,657,22,'friday'),(14,658,22,'saturday'),(15,659,22,'sunday'),(16,660,22,'monday'),(17,661,22,'tuesday'),(18,662,22,'wednesday'),(19,663,22,'thursday'),(20,664,22,'friday'),(21,665,22,'saturday'),(22,666,22,'sunday'),(23,667,22,'monday'),(24,668,22,'tuesday'),(25,669,22,'wednesday'),(26,670,22,'thursday'),(27,671,22,'friday'),(28,672,22,'saturday'),(29,673,22,'sunday'),(30,674,22,'monday'),(31,675,22,'tuesday'),(1,676,23,'wednesday'),(2,677,23,'thursday'),(3,678,23,'friday'),(4,679,23,'saturday'),(5,680,23,'sunday'),(6,681,23,'monday'),(7,682,23,'tuesday'),(8,683,23,'wednesday'),(9,684,23,'thursday'),(10,685,23,'friday'),(11,686,23,'saturday'),(12,687,23,'sunday'),(13,688,23,'monday'),(14,689,23,'tuesday'),(15,690,23,'wednesday'),(16,691,23,'thursday'),(17,692,23,'friday'),(18,693,23,'saturday'),(19,694,23,'sunday'),(20,695,23,'monday'),(21,696,23,'tuesday'),(22,697,23,'wednesday'),(23,698,23,'thursday'),(24,699,23,'friday'),(25,700,23,'saturday'),(26,701,23,'sunday'),(27,702,23,'monday'),(28,703,23,'tuesday'),(29,704,23,'wednesday'),(30,705,23,'thursday'),(31,706,23,'friday'),(1,707,24,'saturday'),(2,708,24,'sunday'),(3,709,24,'monday'),(4,710,24,'tuesday'),(5,711,24,'wednesday'),(6,712,24,'thursday'),(7,713,24,'friday'),(8,714,24,'saturday'),(9,715,24,'sunday'),(10,716,24,'monday'),(11,717,24,'tuesday'),(12,718,24,'wednesday'),(13,719,24,'thursday'),(14,720,24,'friday'),(15,721,24,'saturday'),(16,722,24,'sunday'),(17,723,24,'monday'),(18,724,24,'tuesday'),(19,725,24,'wednesday'),(20,726,24,'thursday'),(21,727,24,'friday'),(22,728,24,'saturday'),(23,729,24,'sunday'),(24,730,24,'monday'),(25,731,24,'tuesday'),(26,732,24,'wednesday'),(27,733,24,'thursday'),(28,734,24,'friday'),(29,735,24,'saturday'),(30,736,24,'sunday'),(31,737,24,'monday'),(1,738,25,'tuesday'),(2,739,25,'wednesday'),(3,740,25,'thursday'),(4,741,25,'friday'),(5,742,25,'saturday'),(6,743,25,'sunday'),(7,744,25,'monday'),(8,745,25,'tuesday'),(9,746,25,'wednesday'),(10,747,25,'thursday'),(11,748,25,'friday'),(12,749,25,'saturday'),(13,750,25,'sunday'),(14,751,25,'monday'),(15,752,25,'tuesday'),(16,753,25,'wednesday'),(17,754,25,'thursday'),(18,755,25,'friday'),(19,756,25,'saturday'),(20,757,25,'sunday'),(21,758,25,'monday'),(22,759,25,'tuesday'),(23,760,25,'wednesday'),(24,761,25,'thursday'),(25,762,25,'friday'),(26,763,25,'saturday'),(27,764,25,'sunday'),(28,765,25,'monday'),(29,766,25,'tuesday'),(30,767,25,'wednesday'),(31,768,25,'thursday'),(1,769,26,'friday'),(2,770,26,'saturday'),(3,771,26,'sunday'),(4,772,26,'monday'),(5,773,26,'tuesday'),(6,774,26,'wednesday'),(7,775,26,'thursday'),(8,776,26,'friday'),(9,777,26,'saturday'),(10,778,26,'sunday'),(11,779,26,'monday'),(12,780,26,'tuesday'),(13,781,26,'wednesday'),(14,782,26,'thursday'),(15,783,26,'friday'),(16,784,26,'saturday'),(17,785,26,'sunday'),(18,786,26,'monday'),(19,787,26,'tuesday'),(20,788,26,'wednesday'),(21,789,26,'thursday'),(22,790,26,'friday'),(23,791,26,'saturday'),(24,792,26,'sunday'),(25,793,26,'monday'),(26,794,26,'tuesday'),(27,795,26,'wednesday'),(28,796,26,'thursday'),(29,797,26,'friday'),(30,798,26,'saturday'),(31,799,26,'sunday'),(1,800,27,'monday'),(2,801,27,'tuesday'),(3,802,27,'wednesday'),(4,803,27,'thursday'),(5,804,27,'friday'),(6,805,27,'saturday'),(7,806,27,'sunday'),(8,807,27,'monday'),(9,808,27,'tuesday'),(10,809,27,'wednesday'),(11,810,27,'thursday'),(12,811,27,'friday'),(13,812,27,'saturday'),(14,813,27,'sunday'),(15,814,27,'monday'),(16,815,27,'tuesday'),(17,816,27,'wednesday'),(18,817,27,'thursday'),(19,818,27,'friday'),(20,819,27,'saturday'),(21,820,27,'sunday'),(22,821,27,'monday'),(23,822,27,'tuesday'),(24,823,27,'wednesday'),(25,824,27,'thursday'),(26,825,27,'friday'),(27,826,27,'saturday'),(28,827,27,'sunday'),(29,828,27,'monday'),(30,829,27,'tuesday'),(31,830,27,'wednesday'),(1,831,28,'thursday'),(2,832,28,'friday'),(3,833,28,'saturday'),(4,834,28,'sunday'),(5,835,28,'monday'),(6,836,28,'tuesday'),(7,837,28,'wednesday'),(8,838,28,'thursday'),(9,839,28,'friday'),(10,840,28,'saturday'),(11,841,28,'sunday'),(12,842,28,'monday'),(13,843,28,'tuesday'),(14,844,28,'wednesday'),(15,845,28,'thursday'),(16,846,28,'friday'),(17,847,28,'saturday'),(18,848,28,'sunday'),(19,849,28,'monday'),(20,850,28,'tuesday'),(21,851,28,'wednesday'),(22,852,28,'thursday'),(23,853,28,'friday'),(24,854,28,'saturday'),(25,855,28,'sunday'),(26,856,28,'monday'),(27,857,28,'tuesday'),(28,858,28,'wednesday'),(29,859,28,'thursday'),(30,860,28,'friday'),(31,861,28,'saturday'),(1,862,29,'sunday'),(2,863,29,'monday'),(3,864,29,'tuesday'),(4,865,29,'wednesday'),(5,866,29,'thursday'),(6,867,29,'friday'),(7,868,29,'saturday'),(8,869,29,'sunday'),(9,870,29,'monday'),(10,871,29,'tuesday'),(11,872,29,'wednesday'),(12,873,29,'thursday'),(13,874,29,'friday'),(14,875,29,'saturday'),(15,876,29,'sunday'),(16,877,29,'monday'),(17,878,29,'tuesday'),(18,879,29,'wednesday'),(19,880,29,'thursday'),(20,881,29,'friday'),(21,882,29,'saturday'),(22,883,29,'sunday'),(23,884,29,'monday'),(24,885,29,'tuesday'),(25,886,29,'wednesday'),(26,887,29,'thursday'),(27,888,29,'friday'),(28,889,29,'saturday'),(29,890,29,'sunday'),(30,891,29,'monday'),(31,892,29,'tuesday'),(1,893,30,'wednesday'),(2,894,30,'thursday'),(3,895,30,'friday'),(4,896,30,'saturday'),(5,897,30,'sunday'),(6,898,30,'monday'),(7,899,30,'tuesday'),(8,900,30,'wednesday'),(9,901,30,'thursday'),(10,902,30,'friday'),(11,903,30,'saturday'),(12,904,30,'sunday'),(13,905,30,'monday'),(14,906,30,'tuesday'),(15,907,30,'wednesday'),(16,908,30,'thursday'),(17,909,30,'friday'),(18,910,30,'saturday'),(19,911,30,'sunday'),(20,912,30,'monday'),(21,913,30,'tuesday'),(22,914,30,'wednesday'),(23,915,30,'thursday'),(24,916,30,'friday'),(25,917,30,'saturday'),(26,918,30,'sunday'),(27,919,30,'monday'),(28,920,30,'tuesday'),(29,921,30,'wednesday'),(30,922,30,'thursday'),(31,923,30,'friday'),(1,924,31,'saturday'),(2,925,31,'sunday'),(3,926,31,'monday'),(4,927,31,'tuesday'),(5,928,31,'wednesday'),(6,929,31,'thursday'),(7,930,31,'friday'),(8,931,31,'saturday'),(9,932,31,'sunday'),(10,933,31,'monday'),(11,934,31,'tuesday'),(12,935,31,'wednesday'),(13,936,31,'thursday'),(14,937,31,'friday'),(15,938,31,'saturday'),(16,939,31,'sunday'),(17,940,31,'monday'),(18,941,31,'tuesday'),(19,942,31,'wednesday'),(20,943,31,'thursday'),(21,944,31,'friday'),(22,945,31,'saturday'),(23,946,31,'sunday'),(24,947,31,'monday'),(25,948,31,'tuesday'),(26,949,31,'wednesday'),(27,950,31,'thursday'),(28,951,31,'friday'),(29,952,31,'saturday'),(30,953,31,'sunday'),(31,954,31,'monday'),(1,955,32,'tuesday'),(2,956,32,'wednesday'),(3,957,32,'thursday'),(4,958,32,'friday'),(5,959,32,'saturday'),(6,960,32,'sunday'),(7,961,32,'monday'),(8,962,32,'tuesday'),(9,963,32,'wednesday'),(10,964,32,'thursday'),(11,965,32,'friday'),(12,966,32,'saturday'),(13,967,32,'sunday'),(14,968,32,'monday'),(15,969,32,'tuesday'),(16,970,32,'wednesday'),(17,971,32,'thursday'),(18,972,32,'friday'),(19,973,32,'saturday'),(20,974,32,'sunday'),(21,975,32,'monday'),(22,976,32,'tuesday'),(23,977,32,'wednesday'),(24,978,32,'thursday'),(25,979,32,'friday'),(26,980,32,'saturday'),(27,981,32,'sunday'),(28,982,32,'monday'),(29,983,32,'tuesday'),(30,984,32,'wednesday'),(31,985,32,'thursday'),(1,986,33,'friday'),(2,987,33,'saturday'),(3,988,33,'sunday'),(4,989,33,'monday'),(5,990,33,'tuesday'),(6,991,33,'wednesday'),(7,992,33,'thursday'),(8,993,33,'friday'),(9,994,33,'saturday'),(10,995,33,'sunday'),(11,996,33,'monday'),(12,997,33,'tuesday'),(13,998,33,'wednesday'),(14,999,33,'thursday'),(15,1000,33,'friday')

```
sday'),(14,348,12,'thursday'),(15,349,12,'friday'),(16,350,12,'saturday'),(17,351,12,'sunday'),(18,352,12,'monday'),(19,353,12,'tuesday'),(20,354,12,'wednesday'),(21,355,12,'thursday'),(22,356,12,'friday'),(23,357,12,'saturday'),(24,358,12,'sunday'),(25,359,12,'monday'),(26,360,12,'tuesday'),(27,361,12,'wednesday'),(28,362,12,'thursday'),(29,363,12,'friday'),(30,364,12,'saturday'),(31,365,12,'sunday');
```

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

```
UNLOCK TABLES;
```

```
--
```

```
-- Table structure for table `facts_ticket`
```

```
--
```

```
DROP TABLE IF EXISTS `facts_ticket`;
```

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

```
/*!50503 SET character_set_client = utf8mb4 */;
```

```
CREATE TABLE `facts_ticket` (
```

```
  `Sell_By_Product` double DEFAULT NULL,
```

```
  `Ticket_Number` int DEFAULT NULL,
```

```
  `Books_ISBN` double DEFAULT NULL,
```

```
  `WareHouse_Code` int DEFAULT NULL,
```

```
  `Day_ID` int DEFAULT NULL,
```

```
  KEY `WareHouse_Code` (`WareHouse_Code`),
```

```
  KEY `Day_ID` (`Day_ID`),
```

```
  KEY `facts_ticket_ibfk_1_idx` (`Books_ISBN`),
```

```
  CONSTRAINT `facts_ticket_ibfk_1` FOREIGN KEY (`Books_ISBN`) REFERENCES `books` (`ISBN`),
```

```
  CONSTRAINT `facts_ticket_ibfk_2` FOREIGN KEY (`WareHouse_Code`) REFERENCES `warehouse` (`Code`),
```

```
  CONSTRAINT `facts_ticket_ibfk_3` FOREIGN KEY (`Day_ID`) REFERENCES `day` (`Day_ID`)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

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

```
--
```

```
-- Dumping data for table `facts_ticket`
```

--

LOCK TABLES `facts\_ticket` WRITE;

/\*!40000 ALTER TABLE `facts\_ticket` DISABLE KEYS \*/;

INSERT INTO `facts\_ticket` VALUES

(275,1,9703859312,14,52),(48,1,9703746207,10,345),(15,1,9739482716,7,314),(56,1,9703746215,17,50),(270,1,9793937405,37,6),(96,2,9703746207,31,358),(84,2,9703746215,8,223),(16,2,9703746207,23,91),(166,3,9793937413,24,142),(180,3,9706279301,25,123),(14,3,9793937413,23,339),(287,3,9702833319,29,35),(56,3,9728304802,22,167),(90,4,9706279301,13,64),(581,4,9793937413,18,219),(637,6,9729473014,14,129),(74,6,9729473006,16,60),(210,7,9706279301,12,7),(84,7,9728304810,24,329),(225,7,9793937405,38,344),(105,7,9739482716,10,328),(840,8,9703859304,32,239),(225,8,9793937405,6,66),(222,8,9729473006,30,44),(198,9,9703859320,10,355),(246,9,9702833319,13,54),(240,10,9703859304,37,296),(27,10,9703859321,18,49),(364,11,9729473014,6,233),(35,11,9728304818,5,88),(72,11,9728304810,36,95),(112,11,9703746207,21,341),(30,11,9706279301,11,217),(42,13,9706279317,27,80),(246,13,9702833319,28,206),(84,13,9706279317,34,305);

/\*!40000 ALTER TABLE `facts\_ticket` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `month`

--

DROP TABLE IF EXISTS `month`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!50503 SET character\_set\_client = utf8mb4 \*/;

CREATE TABLE `month` (

  `Month\_ID` int NOT NULL,

  `Month` varchar(10) NOT NULL,

  `Year\_ID` int DEFAULT NULL,

  PRIMARY KEY (`Month\_ID`),

  KEY `Year\_ID` (`Year\_ID`),

  CONSTRAINT `month\_ibfk\_1` FOREIGN KEY (`Year\_ID`) REFERENCES `year` (`Year\_ID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

```

--

-- Dumping data for table `month`

--

LOCK TABLES `month` WRITE;

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

INSERT INTO `month` VALUES
(1,'january',1),(2,'february',1),(3,'march',1),(4,'april',1),(5,'may',1),(6,'june',1),(7,'july',1),(8,'august',1)
,(9,'september',1),(10,'october',1),(11,'november',1),(12,'december',1);

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

UNLOCK TABLES;

--

-- Table structure for table `region`

--

DROP TABLE IF EXISTS `region`;

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

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `region` (
  `Region_ID` int NOT NULL,
  `Region_name` varchar(32) NOT NULL,
  PRIMARY KEY (`Region_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

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

--

-- Dumping data for table `region`

--

LOCK TABLES `region` WRITE;

```

```

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

INSERT INTO `region` VALUES (1,'america'),(2,'europa'),(3,'asia'),(4,'africa'),(5,'oceania');

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

UNLOCK TABLES;

--

-- Table structure for table `subregion`
--

DROP TABLE IF EXISTS `subregion`;

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

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `subregion` (
  `Subregion_ID` int NOT NULL,
  `Region_ID` int DEFAULT NULL,
  `SubRegion_name` varchar(32) NOT NULL,
  PRIMARY KEY (`Subregion_ID`),
  KEY `Region_ID` (`Region_ID`),
  CONSTRAINT `subregion_ibfk_1` FOREIGN KEY (`Region_ID`) REFERENCES `region` (`Region_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

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

--

-- Dumping data for table `subregion`
--

LOCK TABLES `subregion` WRITE;

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

INSERT INTO `subregion` VALUES (1,1,'north america'),(2,1,'central america'),(3,1,'caribe'),(4,1,'south america'),(5,2,'north of europe'),(6,2,'south of europe'),(7,2,'western europe'),(8,2,'eastern europe'),(9,3,'northern of asia'),(10,3,'southern asia'),(11,3,'eastern asia'),(12,3,'central

```



```
asia'),(13,3,'southeast asia'),(14,4,'north africa'),(15,4,'southern africa'),(16,4,'west africa'),(17,4,'east africa'),(18,4,'central africa'),(19,5,'australia'),(20,5,'melanesia'),(21,5,'micronesia'),(22,5,'polynesia');
```

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

```
UNLOCK TABLES;
```

```
--
```

```
-- Table structure for table `warehouse`
```

```
--
```

```
DROP TABLE IF EXISTS `warehouse`;
```

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

```
/*!50503 SET character_set_client = utf8mb4 */;
```

```
CREATE TABLE `warehouse` (
```

```
  `Code` int NOT NULL,
```

```
  `SubRegion_ID` int DEFAULT NULL,
```

```
  PRIMARY KEY (`Code`),
```

```
  KEY `SubRegion_ID` (`SubRegion_ID`),
```

```
  CONSTRAINT `warehouse_ibfk_1` FOREIGN KEY (`SubRegion_ID`) REFERENCES `subregion`  
  (`Subregion_ID`)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

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

```
--
```

```
-- Dumping data for table `warehouse`
```

```
--
```

```
LOCK TABLES `warehouse` WRITE;
```

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

```
INSERT INTO `warehouse` VALUES
```

```
(1,1),(2,1),(3,2),(4,2),(5,3),(6,3),(7,4),(8,4),(9,5),(10,5),(11,6),(12,6),(13,7),(14,7),(15,8),(16,8),(17,9),(18,9),(19,10),(20,10),(21,11),(22,11),(23,12),(24,12),(25,13),(26,13),(27,14),(28,14),(29,15),(30,15),(31,16),(32,16),(33,17),(34,17),(35,18),(36,18),(37,19),(38,19),(39,20),(40,20),(41,21),(42,21),(43,22),(44,22);
```

```

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

UNLOCK TABLES;

--

-- Table structure for table `year`
--

DROP TABLE IF EXISTS `year`;

/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `year` (
  `Year_ID` int NOT NULL,
  `Year` year NOT NULL,
  PRIMARY KEY (`Year_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `year`
--

LOCK TABLES `year` WRITE;

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

INSERT INTO `year` VALUES (1,2017);

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

UNLOCK TABLES;

--

-- Dumping events for database 'olap_bookshop'
--

```

```
--  
-- Dumping routines for database 'olap_bookshop'  
--  
/*!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 2022-11-01 16:55:11
```

## SQL Script with queries (DML and DDL)

```
1  -- 1.- Obtain the total daily sales by book and subregion SUBREGION, DAY, ISBN, TITLE
2  • select distinct
3    s.subregion_name as "subregion",
4    d.day as "day",
5    d.num_day as "num_day",
6    p.isbn as "ISBN",
7    p.title as "title",
8    sum(t.sell_by_product) as "total_sales"
9  from
10  olap_bookshop.subregion s,
11  olap_bookshop.day d,
12  olap_bookshop.books p,
13  olap_bookshop.facts_ticket t,
14  olap_bookshop.warehouse
15  where
16  t.warehouse_code = warehouse.code and
17  warehouse.subregion_id = s.subregion_id and
18  t.day_id = d.day_id and
19  t.books_isbn = p.isbn
20  group by
21  s.subregion_name,
22  d.day,
23  d.num_day,
24  p.isbn
25  order by num_day asc;
```



Result Grid						
Filter Rows:		Export:		Wrap Cell Content:		
subregion	day	num_day	ISBN	title	total_sales	
east africa	wednesday	1	9706279317	Book 17 Keeps Score	84	
central asia	saturday	1	9703746207	Paradise Sky by Jose Lansdale	16	
eastern europe	wednesday	1	9729473006	The spy and the traitor	74	
southeast asia	wednesday	3	9706279301	A Gentleman Never Keeps Score	180	
southern africa	saturday	4	9702833319	Book 19 day friends	287	
central asia	tuesday	5	9793937413	Book 13 for you	14	
central africa	wednesday	5	9728304810	Book 10 for Texas	72	
south of europe	saturday	5	9706279301	A Gentleman Never Keeps Score	30	
western europe	sunday	5	9706279301	A Gentleman Never Keeps Score	90	
australia	friday	6	9793937405	Tell me you are mine	270	
south of europe	saturday	7	9706279301	A Gentleman Never Keeps Score	210	
northern of asia	monday	7	9793937413	Book 13 for you	581	



```

47 -- 3.- Obtain which region had the most transactions during Oc
48 • with ventas_month as (
49     select
50     r.region_name,
51     count(f.ticket_number) as count
52     from
53     olap_bookshop.region r,
54     olap_bookshop.facts_ticket f,
55     olap_bookshop.day d,
56     olap_bookshop.month m,
57     olap_bookshop.warehouse t,
58     olap_bookshop.subregion s
59     where
60     m.month = 'october' and
61     f.day_id = d.day_id and
62     d.month_id=m.month_id and
63     f.warehouse_code = t.code and
64     t.subregion_id = s.subregion_id and
65     s.region_id = r.region_id
66     group by r.region_name)
67 select region_name, max(count)
68 from
69 ventas_month
70 group by region_name;
71
72
73



```

<		
Result Grid	Filter Rows: <input type="text"/>	Export:  Wrap Cell Content: 
	region_name	max(count)
▶	oceania	1

```

75 -- 4.- Obtain the average of the sale per ticket (invoice) ;
76 • select
77   r.region_name,
78   m.month,
79   avg(f.sell_by_product)
80 from
81   olap_bookshop.region r,
82   olap_bookshop.facts_ticket f,
83   olap_bookshop.day d,
84   olap_bookshop.month m,
85   olap_bookshop.warehouse t,
86   olap_bookshop.subregion s
87 where
88   f.day_id = d.day_id and
89   d.month_id=m.month_id and
90   f.warehouse_code= t.code and
91   t.subregion_id = s.subregion_id and
92   s.region_id = r.region_id
93 group by
94   r.region_name,
95   m.month
96 order by
97   r.region_name;
98

```

Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	region_name	month	avg(f.sell_by_product)
▶	africa	april	72
	africa	august	840
	africa	december	96
	africa	february	254.5
	africa	july	246
	africa	march	42
	africa	november	84
	america	august	224
	america	march	130
	america	november	15

```

102 -- 5.- Get which books are bought together more frequently by OLAP (SQL)
103 • with prod1 as (
104     select
105     f.ticket_number,
106     p.title
107     from
108     olap_bookshop.books p,
109     olap_bookshop.facts_ticket f
110     where
111     p.isbn = f.books_isbn
112     group by f.ticket_number, p.title
113 )
114 select prod1.title, pr.title
115 from olap_bookshop.books pr, olap_bookshop.facts_ticket t, prod1
116 where t.ticket_number = prod1.ticket_number
117

```

Result Grid		
	Filter Rows:	Export:   Wrap Cell Content:   Fetch rows:
	title	title
►	Book 13 for you	Rainy day friends
	Texas Glory	Rainy day friends
	A Gentleman Never Keeps Score	Rainy day friends
	Book 19 day friends	Rainy day friends
	Book 13 for you	Book 11 for Rainy day
	Texas Glory	Book 11 for Rainy day
	A Gentleman Never Keeps Score	Book 11 for Rainy day
	Book 19 day friends	Book 11 for Rainy day
	Book 13 for you	Book 19 day friends
	Texas Glory	Book 19 day friends
	A Gentleman Never Keeps Score	Book 19 day friends
	Book 19 day friends	Book 19 day friends
	Book 13 for you	Paradise Sky by Jos...
	Texas Glory	Paradise Sky by Jos...
	A Gentleman Never Keeps Score	Paradise Sky by Jos...
	Book 19 day friends	Paradise Sky by Jos...
	Book 13 for you	Crazy Rich Asians
	Texas Glory	Crazy Rich Asians
	A Gentleman Never Keeps Score	Crazy Rich Asians