

Bookstore Analytical Queries (Using PostgreSQL10)

1---DDL

```
-- -----
-- Schema OLAP_BOOKSHOP
-- -----
CREATE SCHEMA IF NOT EXISTS `OLAP_BOOKSHOP` DEFAULT CHARACTER SET
utf8 ;
USE `OLAP_BOOKSHOP` ;
-- -----
-- Table `OLAP_BOOKSHOP`.`REGION`
-- -----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`REGION` (
  `REGION_ID` INT NOT NULL,
  `REGION_NAME` VARCHAR(20) NOT NULL,
  PRIMARY KEY (`REGION_ID`))
ENGINE = InnoDB;
-- -----
-- Table `OLAP_BOOKSHOP`.`SUBREGION`
-- -----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`SUBREGION` (
  `SUBREGION_ID` INT NOT NULL,
  `SUBREGION_NAME` VARCHAR(30) NOT NULL,
  `REGION_ID` INT NOT NULL,
  PRIMARY KEY (`SUBREGION_ID`, `REGION_ID`),
  INDEX `fk_SUBREGION_REGION_idx` (`REGION_ID` ASC) VISIBLE,
  CONSTRAINT `fk_SUBREGION_REGION`
  FOREIGN KEY (`REGION_ID`)
  REFERENCES `OLAP_BOOKSHOP`.`REGION` (`REGION_ID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- -----
-- Table `OLAP_BOOKSHOP`.`WAREHOUSE`
-- -----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`WAREHOUSE` (
  `CODE` INT NOT NULL,
  `SUBREGION_ID` INT NOT NULL,
  PRIMARY KEY (`CODE`, `SUBREGION_ID`),
  INDEX `fk_WAREHOUSE_SUBREGION1_idx` (`SUBREGION_ID` ASC)
  VISIBLE,
  CONSTRAINT `fk_WAREHOUSE_SUBREGION1`
  FOREIGN KEY (`SUBREGION_ID`)
  REFERENCES `OLAP_BOOKSHOP`.`SUBREGION` (`SUBREGION_ID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- -----
-- Table `OLAP_BOOKSHOP`.`BOOKS`
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-----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`BOOKS` (
  `ISBN` INT NOT NULL,
  `TITLE` VARCHAR(45) NULL,
  `PRICE` VARCHAR(45) NULL,
  PRIMARY KEY (`ISBN`))
ENGINE = InnoDB;
-----
-- Table `OLAP_BOOKSHOP`.`YEAR`
-----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`YEAR` (
  `YEAR_ID` INT NOT NULL,
  `YEAR` YEAR(4) NULL,
  PRIMARY KEY (`YEAR_ID`))
ENGINE = InnoDB;
-----
-- Table `OLAP_BOOKSHOP`.`MONTH`
-----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`MONTH` (
  `MONTH_ID` INT NOT NULL,
  `MONTH` VARCHAR(15) NULL,
  `YEAR_ID` INT NOT NULL,
  PRIMARY KEY (`MONTH_ID`, `YEAR_ID`),
  INDEX `fk_MONTH_YEAR1_idx` (`YEAR_ID` ASC) VISIBLE,
  CONSTRAINT `fk_MONTH_YEAR1`
  FOREIGN KEY (`YEAR_ID`)
  REFERENCES `OLAP_BOOKSHOP`.`YEAR` (`YEAR_ID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-----
-- Table `OLAP_BOOKSHOP`.`DAY`
-----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`DAY` (
  `NUM_DAY` INT NOT NULL,
  `DAY_ID` VARCHAR(45) NOT NULL,
  `MONTH_ID` INT NOT NULL,
  PRIMARY KEY (`DAY_ID`, `MONTH_ID`),
  INDEX `fk_DAY_MONTH1_idx` (`MONTH_ID` ASC) VISIBLE,
  CONSTRAINT `fk_DAY_MONTH1`
  FOREIGN KEY (`MONTH_ID`)
  REFERENCES `OLAP_BOOKSHOP`.`MONTH` (`MONTH_ID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-----
-- Table `OLAP_BOOKSHOP`.`FACTS_TICKET`
-----
CREATE TABLE IF NOT EXISTS `OLAP_BOOKSHOP`.`FACTS_TICKET` (
  `SELL_BY_PRODUCT` DOUBLE NOT NULL,

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`TICKET_NUMBER` INT NOT NULL,
`BOOKS_ISBN` INT NOT NULL,
`WAREHOUSE_CODE` INT NOT NULL,
`DAY_ID` VARCHAR(45) NOT NULL,
PRIMARY KEY (`SELL_BY_PRODUCT`, `BOOKS_ISBN`, `WAREHOUSE_CODE`,
`DAY_ID`),
INDEX `fk_FACTS_TICKET_BOOKS1_idx` (`BOOKS_ISBN` ASC) VISIBLE,
INDEX `fk_FACTS_TICKET_WAREHOUSE1_idx` (`WAREHOUSE_CODE` ASC)
VISIBLE,
INDEX `fk_FACTS_TICKET_DAY1_idx` (`DAY_ID` ASC) VISIBLE,
CONSTRAINT `fk_FACTS_TICKET_BOOKS1`
FOREIGN KEY (`BOOKS_ISBN`)
REFERENCES `OLAP_BOOKSHOP`.`BOOKS` (`ISBN`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_FACTS_TICKET_WAREHOUSE1`
FOREIGN KEY (`WAREHOUSE_CODE`)
REFERENCES `OLAP_BOOKSHOP`.`WAREHOUSE` (`CODE`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_FACTS_TICKET_DAY1`
FOREIGN KEY (`DAY_ID`)
REFERENCES `OLAP_BOOKSHOP`.`DAY` (`DAY_ID`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;

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2.---DDL inserts

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-- inserts region
INSERT INTO olap_bookshop.region(region_id, region_name) VALUES
(1, 'america');
INSERT INTO olap_bookshop.region(region_id, region_name) VALUES
(2, 'europa');
INSERT INTO olap_bookshop.region(region_id, region_name) VALUES
(3, 'asia');
INSERT INTO olap_bookshop.region(region_id, region_name) VALUES
(4, 'africa');
INSERT INTO olap_bookshop.region(region_id, region_name) VALUES
(5, 'oceania');
-- inserts subregion
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,

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subregion_name) VALUES (1,1,'north america');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (2,1,'central america');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (3,1,'caribe');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (4,1,'south america');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (5,2,'north of europe');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (6,2,'south of europe');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (7,2,'western europe');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (8,2,'eastern europe');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (9,3,'northern of asia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (10,3,'southern asia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (11,3,'eastern asia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (12,3,'central asia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (13,3,'southeast asia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (14,4,'north africa');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (15,4,'southern africa');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (16,4,'west africa');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (17,4,'east africa');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (18,4,'central africa');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (19,5,'australia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (20,5,'melanesia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (21,5,'micronesia');
INSERT INTO olap_bookshop.subregion(subregion_id, region_id,
subregion_name) VALUES (22,5,'polynesia');
-- inserts time dimension
INSERT INTO olap_bookshop.year (year_id, year) VALUES (1,'2017');
commit;
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(1,1,'january');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(2,1,'february');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(3,1,'march');

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INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(4,1,'april');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(5,1,'may');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(6,1,'june');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(7,1,'july');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(8,1,'august');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(9,1,'september');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(10,1,'october');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(11,1,'november');
INSERT INTO olap_bookshop.month (month_id, year_id, month) VALUES
(12,1,'december');
commit;
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (1,1,'sunday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (2,1,'monday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (3,1,'tuesday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (4,1,'wednesday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (5,1,'thursday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (6,1,'friday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (7,1,'saturday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (8,1,'sunday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (9,1,'monday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (10,1,'tuesday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (11,1,'wednesday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (12,1,'thursday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (13,1,'friday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (14,1,'saturday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (15,1,'sunday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (16,1,'monday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (17,1,'tuesday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (18,1,'wednesday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (19,1,'thursday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (20,1,'friday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (21,1,'saturday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (22,1,'sunday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (23,1,'monday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (24,1,'tuesday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (25,1,'wednesday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (26,1,'thursday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (27,1,'friday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (28,1,'saturday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (29,1,'sunday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (30,1,'monday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (31,1,'tuesday',31);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (32,2,'wednesday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (33,2,'thursday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (34,2,'friday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (35,2,'saturday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (36,2,'sunday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (37,2,'monday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (38,2,'tuesday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (39,2,'wednesday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (40,2,'thursday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (41,2,'friday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (42,2,'saturday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (43,2,'sunday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (44,2,'monday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (45,2,'tuesday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (46,2,'wednesday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (47,2,'thursday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (48,2,'friday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (49,2,'saturday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (50,2,'sunday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (51,2,'monday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (52,2,'tuesday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (53,2,'wednesday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (54,2,'thursday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (55,2,'friday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (56,2,'saturday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (57,2,'sunday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (58,2,'monday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (59,2,'tuesday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (60,3,'wednesday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (61,3,'thursday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (62,3,'friday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (63,3,'saturday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (64,3,'sunday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (65,3,'monday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (66,3,'tuesday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (67,3,'wednesday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (68,3,'thursday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (69,3,'friday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (70,3,'saturday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (71,3,'sunday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (72,3,'monday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (73,3,'tuesday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (74,3,'wednesday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (75,3,'thursday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (76,3,'friday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (77,3,'saturday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (78,3,'sunday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (79,3,'monday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (80,3,'tuesday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (81,3,'wednesday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (82,3,'thursday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (83,3,'friday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (84,3,'saturday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (85,3,'sunday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (86,3,'monday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (87,3,'tuesday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (88,3,'wednesday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (89,3,'thursday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (90,3,'friday',31);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (91,4,'saturday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (92,4,'sunday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (93,4,'monday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (94,4,'tuesday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (95,4,'wednesday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (96,4,'thursday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (97,4,'friday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (98,4,'saturday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (99,4,'sunday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (100,4,'monday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (101,4,'tuesday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (102,4,'wednesday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (103,4,'thursday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (104,4,'friday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (105,4,'saturday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (106,4,'sunday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (107,4,'monday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (108,4,'tuesday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (109,4,'wednesday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (110,4,'thursday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (111,4,'friday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (112,4,'saturday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (113,4,'sunday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (114,4,'monday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (115,4,'tuesday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (116,4,'wednesday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (117,4,'thursday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (118,4,'friday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (119,4,'saturday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (120,4,'sunday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (121,5,'monday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (122,5,'tuesday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (123,5,'wednesday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (124,5,'thursday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (125,5,'friday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (126,5,'saturday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (127,5,'sunday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (128,5,'monday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (129,5,'tuesday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (130,5,'wednesday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (131,5,'thursday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (132,5,'friday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (133,5,'saturday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (134,5,'sunday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (135,5,'monday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (136,5,'tuesday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (137,5,'wednesday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (138,5,'thursday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (139,5,'friday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (140,5,'saturday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (141,5,'sunday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (142,5,'monday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (143,5,'tuesday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (144,5,'wednesday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (145,5,'thursday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (146,5,'friday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (147,5,'saturday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (148,5,'sunday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (149,5,'monday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (150,5,'tuesday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (151,5,'wednesday',31);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (152,6,'thursday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (153,6,'friday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (154,6,'saturday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (155,6,'sunday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (156,6,'monday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (157,6,'tuesday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (158,6,'wednesday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (159,6,'thursday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (160,6,'friday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (161,6,'saturday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (162,6,'sunday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (163,6,'monday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (164,6,'tuesday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (165,6,'wednesday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (166,6,'thursday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (167,6,'friday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (168,6,'saturday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (169,6,'sunday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (170,6,'monday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (171,6,'tuesday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (172,6,'wednesday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (173,6,'thursday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (174,6,'friday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (175,6,'saturday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (176,6,'sunday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (177,6,'monday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (178,6,'tuesday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (179,6,'wednesday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (180,6,'thursday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (181,6,'friday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (182,7,'saturday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (183,7,'sunday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (184,7,'monday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (185,7,'tuesday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (186,7,'wednesday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (187,7,'thursday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (188,7,'friday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (189,7,'saturday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (190,7,'sunday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (191,7,'monday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (192,7,'tuesday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (193,7,'wednesday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (194,7,'thursday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (195,7,'friday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (196,7,'saturday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (197,7,'sunday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (198,7,'monday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (199,7,'tuesday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (200,7,'wednesday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (201,7,'thursday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (202,7,'friday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (203,7,'saturday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (204,7,'sunday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (205,7,'monday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (206,7,'tuesday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (207,7,'wednesday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (208,7,'thursday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (209,7,'friday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (210,7,'saturday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (211,7,'sunday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (212,7,'monday',31);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (213,8,'tuesday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (214,8,'wednesday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (215,8,'thursday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (216,8,'friday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (217,8,'saturday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (218,8,'sunday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (219,8,'monday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (220,8,'tuesday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (221,8,'wednesday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (222,8,'thursday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (223,8,'friday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (224,8,'saturday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (225,8,'sunday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (226,8,'monday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (227,8,'tuesday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (228,8,'wednesday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (229,8,'thursday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (230,8,'friday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (231,8,'saturday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (232,8,'sunday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (233,8,'monday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (234,8,'tuesday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (235,8,'wednesday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (236,8,'thursday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (237,8,'friday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (238,8,'saturday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (239,8,'sunday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (240,8,'monday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (241,8,'tuesday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (242,8,'wednesday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (243,8,'thursday',31);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (244,9,'friday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (245,9,'saturday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (246,9,'sunday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (247,9,'monday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (248,9,'tuesday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (249,9,'wednesday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (250,9,'thursday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (251,9,'friday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (252,9,'saturday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (253,9,'sunday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (254,9,'monday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (255,9,'tuesday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (256,9,'wednesday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (257,9,'thursday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (258,9,'friday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (259,9,'saturday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (260,9,'sunday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (261,9,'monday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (262,9,'tuesday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (263,9,'wednesday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (264,9,'thursday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (265,9,'friday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (266,9,'saturday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (267,9,'sunday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (268,9,'monday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (269,9,'tuesday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (270,9,'wednesday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (271,9,'thursday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (272,9,'friday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (273,9,'saturday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (274,10,'sunday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (275,10,'monday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (276,10,'tuesday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (277,10,'wednesday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (278,10,'thursday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (279,10,'friday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (280,10,'saturday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (281,10,'sunday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (282,10,'monday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (283,10,'tuesday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (284,10,'wednesday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (285,10,'thursday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (286,10,'friday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (287,10,'saturday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (288,10,'sunday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (289,10,'monday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (290,10,'tuesday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (291,10,'wednesday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (292,10,'thursday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (293,10,'friday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (294,10,'saturday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (295,10,'sunday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (296,10,'monday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (297,10,'tuesday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (298,10,'wednesday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (299,10,'thursday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (300,10,'friday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (301,10,'saturday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (302,10,'sunday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

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VALUES (303,10,'monday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (304,10,'tuesday',31);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (305,11,'wednesday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (306,11,'thursday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (307,11,'friday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (308,11,'saturday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (309,11,'sunday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (310,11,'monday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (311,11,'tuesday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (312,11,'wednesday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (313,11,'thursday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (314,11,'friday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (315,11,'saturday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (316,11,'sunday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (317,11,'monday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (318,11,'tuesday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (319,11,'wednesday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (320,11,'thursday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (321,11,'friday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (322,11,'saturday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (323,11,'sunday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (324,11,'monday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (325,11,'tuesday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (326,11,'wednesday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (327,11,'thursday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (328,11,'friday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

```

```

VALUES (329,11,'saturday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (330,11,'sunday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (331,11,'monday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (332,11,'tuesday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (333,11,'wednesday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (334,11,'thursday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (335,12,'friday',1);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (336,12,'saturday',2);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (337,12,'sunday',3);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (338,12,'monday',4);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (339,12,'tuesday',5);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (340,12,'wednesday',6);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (341,12,'thursday',7);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (342,12,'friday',8);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (343,12,'saturday',9);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (344,12,'sunday',10);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (345,12,'monday',11);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (346,12,'tuesday',12);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (347,12,'wednesday',13);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (348,12,'thursday',14);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (349,12,'friday',15);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (350,12,'saturday',16);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (351,12,'sunday',17);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (352,12,'monday',18);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (353,12,'tuesday',19);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (354,12,'wednesday',20);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)

```

```

VALUES (355,12,'thursday',21);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (356,12,'friday',22);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (357,12,'saturday',23);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (358,12,'sunday',24);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (359,12,'monday',25);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (360,12,'tuesday',26);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (361,12,'wednesday',27);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (362,12,'thursday',28);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (363,12,'friday',29);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (364,12,'saturday',30);
INSERT INTO olap_bookshop.day (day_id, month_id, day, num_day)
VALUES (365,12,'sunday',31);
commit;

```

```
--insert warehouse
```

```

INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(1,1);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(2,1);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(3,2);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(4,2);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(5,3);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(6,3);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(7,4);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(8,4);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(9,5);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(10,5);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(11,6);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(12,6);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(13,7);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES

```

```
(14,7);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(15,8);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(16,8);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(17,9);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(18,9);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(19,10);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(20,10);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(22,11);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(21,11);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(23,12);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(24,12);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(25,13);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(26,13);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(27,14);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(28,14);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(29,15);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(30,15);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(31,16);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(32,16);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(33,17);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(34,17);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(35,18);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(36,18);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(37,19);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(38,19);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(39,20);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
```

```

(40,20);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(41,21);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(42,21);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(43,22);
INSERT INTO olap_bookshop.warehouse (code, subregion_id) VALUES
(44,22);
-- inserts olap_bookshop.books
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9706279301,'A Gentleman Never Keeps Score',384.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9728304802,'Texas Glory',94.50);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9702833303,'Rainy day friends',45.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9703859304,'Crazy Rich Asians',1234.50);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9793937405,'Tell me you are mine',23.60);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9729473006,'The spy and the traitor',200.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9703746207,'Paradise Sky by Jose Lansdale',145.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9739482708,'Meet Camaro from the Nigh Charter',165.99);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9706279309,'Book 9 for A Gentleman',344.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9728304810,'Book 10 for Texas',84.50);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9702833311,'Book 11 for Rainy day',75.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9703859312,'Book 12 for Crazy Rich Asians',124.50);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9793937413,'Book 13 for you',23.60);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9729473014,'Book 14 for the spy and the traitor',240.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9793937413,'Book 15 for the Sky ',135.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9739482716,'Book 16 for the Nigh Charter',125.99);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9706279317,'Book 17 Keeps Score',314.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9728304818,'Book 18 Glory',84.50);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9702833319,'Book 19 day friends',65.00);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9703859320,'Book 20 Asians',1434.50);
INSERT INTO olap_bookshop.books (isbn, title, price) VALUES
(9703859321,'Book 21 for the Bible',1434.50);

```

```

--insert facts_ticket
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(52,14,9703859312,275,1);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(345,10,9703746207,48,1);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(314,7,9739482716,15,1);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(50,17,9703746215,56,1);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(6,37,9793937405,270,1);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(358,31,9703746207,96,2);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(223,8,9703746215,84,2);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(91,23,9703746207,16,2);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(142,24,9793937413,166,3);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(123,25,9706279301,180,3);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(339,23,9793937413,14,3);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(35,29,9702833319,287,3);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(167,22,9728304802,56,3);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(64,13,9706279301,90,4);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(219,18,9793937413,581,4);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(129,14,9729473014,637,6);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(60,16,9729473006,74,6);

```

```

INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(7,12,9706279301,210,7);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(329,24,9728304810,84,7);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(344,38,9793937405,225,7);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(328,10,9739482716,105,7);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(239,32,9703859304,840,8);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(66,6,9793937405,225,8);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(44,30,9729473006,222,8);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(355,10,9703859320,198,9);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(54,13,9702833319,246,9);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(296,37,9703859304,240,10);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(49,18,9703859321,27,10);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(233,6,9729473014,364,11);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(88,5,9728304818,35,11);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(95,36,9728304810,72,11);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(341,21,9703746207,112,11);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(217,11,9706279301,30,11);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(80,27,9706279317,42,13);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,

```

```
books_isbn, sell_by_product, ticket_number) VALUES
(206,28,9702833319,246,13);
INSERT INTO olap_bookshop.facts_ticket (day_id, warehouse_code,
books_isbn, sell_by_product, ticket_number) VALUES
(305,34,9706279317,84,13);
```

3. - 4. --- Queries and screenshots

Query 1:



```
-- 1.- Obtain the total daily sales by book and subregion SUBREGION, DAY, ISBN, TITLE
select distinct
s.subregion_name as "subregion",
d.day as "day",
d.num_day as "num_day",
p.isbn as "ISBN",
p.title as "title",
sum(t.sell_by_product) as "total_sales"
from
olap_bookshop.subregion s,
olap_bookshop.day d,
olap_bookshop.books p,
olap_bookshop.facts_ticket t,
olap_bookshop.warehouse
where
t.warehouse_code = warehouse.code and
warehouse.subregion_id = s.subregion_id and
t.day_id = d.day_id and
t.books_isbn = p.isbn
group by
s.subregion_name,
d.day,
d.num_day,
p.isbn
order by num_day asc;
```

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
caribe	tuesday	7	9793937405	Tell me you are mine	225
eastern asia	thursday	7	9703746207	Paradise Sky by Jose Lansdale	112
western europe	tuesday	9	9729473014	Book 14 for the spy and the tra...	637
south america	friday	10	9739482716	Book 16 for the Nigh Charter	15
australia	sunday	10	9793937405	Tell me you are mine	225

Query 2:

Query 1 day day books OLAPBookshopQueriesSolution* x

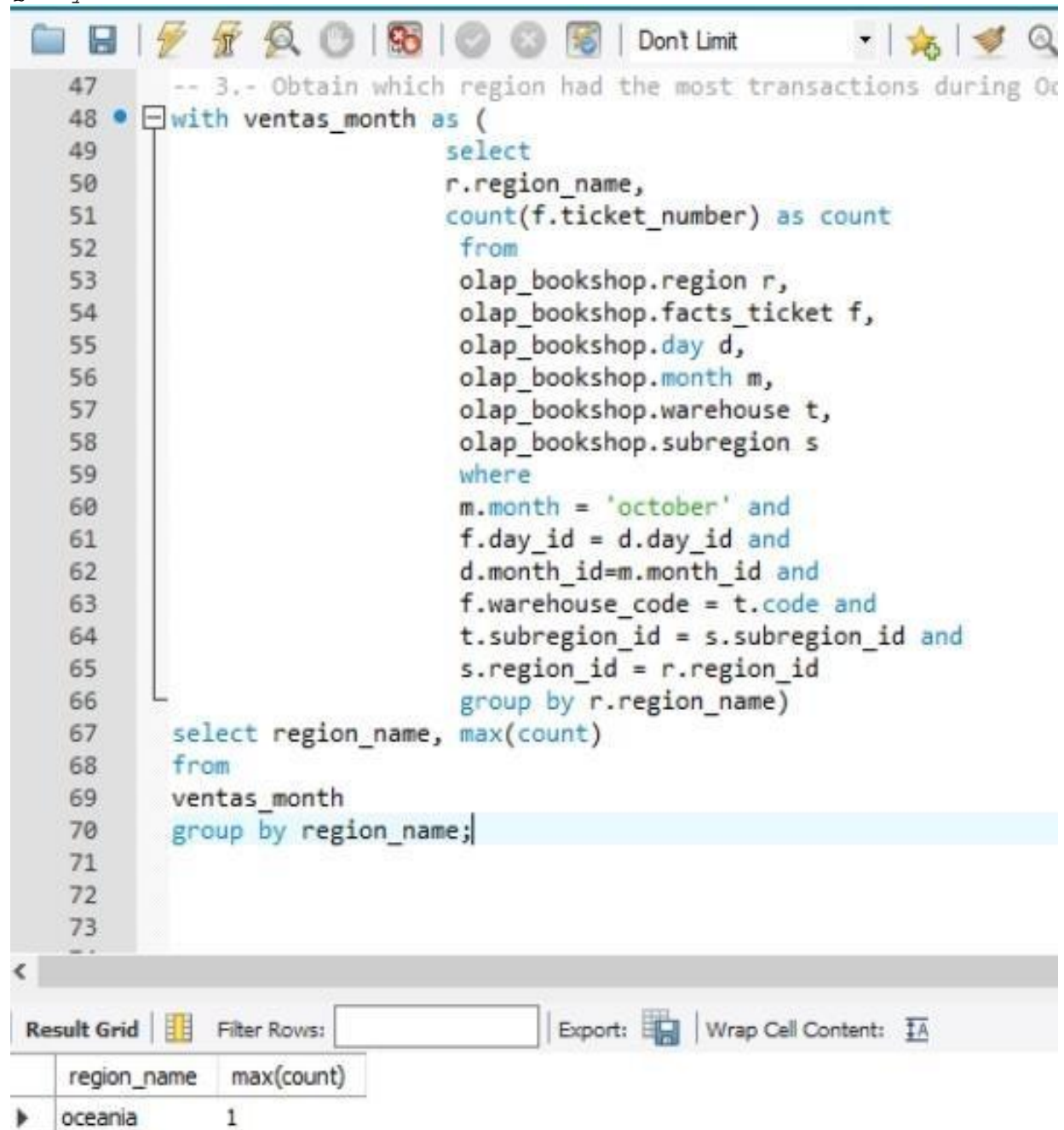
Don't Limit

```
26
27
28 -- 2.- Obtain annual sales per book YEAR, ISBN, TITLE, SALES_AMOUNT
29 select distinct
30 an.year as "year",
31 p.isbn as "isbn",
32 p.title as "title",
33 sum(t.sell_by_product) as "total_sales"
34 from
35 olap_bookshop.year an,
36 olap_bookshop.books p,
37 olap_bookshop.facts_ticket t
38 where
39 t.books_isbn= p.isbn
40 group by
41 an.year,
42 p.isbn
43 order by
44 p.isbn asc;
45
```

Result Grid Filter Rows: Export: Wrap Cell Content: I A

	year	isbn	title	total_sales
▶	2017	9702833319	Book 19 day friends	779
	2017	9703746207	Paradise Sky by Jose Lansdale	272
	2017	9703859304	Crazy Rich Asians	1080
	2017	9703859312	Book 12 for Crazy Rich Asians	275
	2017	9703859320	Book 20 Asians	198
	2017	9703859321	Book 21 for the Bible	27
	2017	9706279301	A Gentleman Never Keeps Score	510
	2017	9706279317	Book 17 Keeps Score	126
	2017	9728304802	Texas Glory	56
	2017	9728304810	Book 10 for Texas	156
	2017	9728304818	Book 18 Glory	35
	2017	9729473006	The spy and the traitor	296
	2017	9729473014	Book 14 for the spy and the tra...	1001
	2017	9739482716	Book 16 for the Nigh Charter	120
	2017	9793937405	Tell me you are mine	720
	2017	9793937413	Book 13 for you	761

Query 3:



```

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: | Export: | Wrap Cell Content: |

	region_name	max(count)
▶	oceania	1

Query 4:

The screenshot shows a SQL query editor window with a toolbar at the top containing icons for file operations, execution, and settings. The query text is as follows:

```
74
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
```

Below the query editor is the 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The results are displayed in a table with the following data:

	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
	asia	april	16
	asia	august	581
	asia	december	63
	asia	february	41.5
	asia	june	56
	asia	may	173
	asia	november	84
	asia	august	20

At the bottom left, there is a tab labeled 'Result 25' with a close button (X).

Query 5:

```

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

```

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
Book 19 day friends	Crazy Rich Asians
Book 13 for you	Book 12 for Crazy RIC...
Texas Glory	Book 12 for Crazy RIC...