CREATE TABLES

CREATE TABLE CUSTOMER (

CUSTOMERID CHAR(10)NOT NULL,

CNAME VARCHAR(25)NOT NULL,

CSURNAME VARCHAR(25)NOT NULL,

CEMAIL VARCHAR(22)NOT NULL,

CTELEPHONE VARCHAR(10)NOT NULL,

CITY CHAR(25)NOT NULL,

STREET VARCHAR(25)NOT NULL,

HOUSE VARCHAR(25)NOT NULL,

FLAT VARCHAR(3)NOT NULL,

CONSTRAINT CUSTOMER\_PK PRIMARY KEY(CUSTOMERID),

CONSTRAINT CTELEPHONE\_CK CHECK(LENGTH(CTELEPHONE)=10));

CREATE TABLE ORDERS(

ORDERID CHAR(25) NOT NULL,

CUSTOMERID CHAR(10)NOT NULL,

COLLECTION\_POINTID CHAR (10) NOT NULL,

ORDER\_DATE DATE DEFAULT SYSDATE NOT NULL,

DEL\_DATE DATE NOT NULL,

PAYMENT\_METH CHAR(8) NOT NULL,

STATUS CHAR(1) NOT NULL,

CONSTRAINT ORDERID\_PK PRIMARY KEY(ORDERID),

CONSTRAINT FK\_ORDER FOREIGN KEY(CUSTOMERID) REFERENCES CUSTOMER(CUSTOMERID)ON DELETE SET NULL,

CONSTRAINT DEL\_DATE\_CK CHECK(DEL\_DATE<=ORDER\_DATE+10));

CREATE TABLE BOOK(

BOOKID VARCHAR(20)NOT NULL,

PRICE CHAR(5)NOT NULL,

TITLE VARCHAR(100)NOT NULL,

AUTHOR VARCHAR(50) NOT NULL,

GENRE VARCHAR(25)NOT NULL,

PUBLISHER VARCHAR(100)NOT NULL,

REL\_DATE DATE,

PAGE\_NUM CHAR(5)NOT NULL,

CONSTRAINT BOOKID\_PK PRIMARY KEY(BOOKID),

CONSTRAINT PRICE\_CK CHECK(PRICE>0));

CREATE TABLE ORDERLINE(

ORDERLINEID CHAR(25)NOT NULL,

ORDERID CHAR(25)NOT NULL,

BOOKID VARCHAR(20)NOT NULL,

QUANTITY CHAR(5)NOT NULL,

TOTALPRICE CHAR(5) NOT NULL,

CONSTRAINT ORDERLINE\_PK PRIMARY KEY(ORDERLINEID),

CONSTRAINT FK\_ORDERLINE\_BOOK FOREIGN KEY(BOOKID) REFERENCES BOOK(BOOKID),

CONSTRAINT FK\_ORDERLINE FOREIGN KEY(ORDERID) REFERENCES ORDERS(ORDERID),

CONSTRAINT CHK\_TOTALPRICE CHECK(TOTALPRICE > 0)

);

CREATE TABLE PAYMENT(

PAYMENTID VARCHAR(25)NOT NULL,

ORDERID CHAR(25)NOT NULL,

PAYMENTDATE DATE NOT NULL,

AMOUNT CHAR(5)NOT NULL,

TODAY\_DATE DATE DEFAULT SYSDATE,

CONSTRAINT PAYMENT\_PKEY PRIMARY KEY (PAYMENTID),

CONSTRAINT FK\_PAYMENT FOREIGN KEY(ORDERID) REFERENCES ORDERS(ORDERID),

CONSTRAINT CHK\_PAYMENTDATE CHECK(PAYMENTDATE<=TODAY\_DATE),

CONSTRAINT CHK\_AMOUNT CHECK(AMOUNT > 0));

CREATE TABLE CCHECK(

CHECKNUM CHAR(10) NOT NULL,

PAYMENTID VARCHAR(25)NOT NULL,

BANKNAME VARCHAR(25) NOT NULL,

CONSTRAINT CCHECK\_PKEY PRIMARY KEY (CHECKNUM),

CONSTRAINT FK\_CCHECK FOREIGN KEY(PAYMENTID) REFERENCES PAYMENT(PAYMENTID),

CONSTRAINT CHECKNUM\_CK CHECK(LENGTH(CHECKNUM)=10));

CREATE TABLE CARD(

CARDNUM CHAR(10) NOT NULL,

PAYMENTID VARCHAR(25)NOT NULL,

CARDTYPE VARCHAR(25) NOT NULL,

EXPDATE DATE NOT NULL,

HOLDERNAME VARCHAR(15)NOT NULL,

HOLDERADDR VARCHAR(50)NOT NULL,

CONSTRAINT CARD\_PK PRIMARY KEY(CARDNUM),

CONSTRAINT FK\_CARD FOREIGN KEY(PAYMENTID) REFERENCES PAYMENT(PAYMENTID),

CONSTRAINT CARDNUM\_CK CHECK(LENGTH(CARDNUM)=10));

CREATE TABLE STAFF(

STAFFID CHAR(25)NOT NULL,

ORDERID CHAR(25) NOT NULL,

STNAME VARCHAR(35) NOT NULL,

EMAIL VARCHAR(30) NOT NULL,

SJTITLE VARCHAR(15)NOT NULL,

CONSTRAINT STAFF\_PK PRIMARY KEY(STAFFID),

CONSTRAINT FK\_STAFF FOREIGN KEY(ORDERID) REFERENCES ORDERS(ORDERID));

CREATE TABLE COLLECTIONPOINT(

COLLECTION\_POINTID CHAR (10)NOT NULL,

STAFFID CHAR (25)NOT NULL,

OPNTM CHAR (25)//

CHKOUTTIME CHAR (25),

CONSTRAINT COLLECTIONPOINT\_PK PRIMARY KEY (COLLECTION\_POINTID),

CONSTRAINT FK\_COLLECTIONPOINT FOREIGN KEY (STAFFID) REFERENCES STAFF(STAFFID));

CREATE TABLE CUSTCOLL (

ORDERID CHAR (25) NOT NULL,

CONSTRAINT FK\_CUSTCOLL FOREIGN KEY(ORDERID) REFERENCES ORDERS(ORDERID));

CREATE TABLE DELIVERY(

DELID CHAR (25) NOT NULL,

ORDERID CHAR (25) NOT NULL,

DL\_DATE DATE NOT NULL,

DEL\_ADDRSS VARCHAR (50)NOT NULL,

DCHARGES CHAR (5)NOT NULL,

CONSTRAINT DELIVERY\_PK PRIMARY KEY (DELID),

CONSTRAINT FK\_DELIVERY FOREIGN KEY (ORDERID) REFERENCES ORDERS(ORDERID),

CONSTRAINT CHK\_DCHARGES CHECK (DCHARGES > 0));

CREATE TABLE COURIER (

COURIERID CHAR (15) NOT NULL,

SERVNAME VARCHAR (25) NOT NULL,

CONSTRAINT COURIER\_PK PRIMARY KEY(COURIERID));

CREATE TABLE TRANSPORT (

TRANSPORTID CHAR (10) NOT NULL,

DRIVDIRECT VARCHAR (100) NOT NULL,

CONSTRAINT TRANSPORT\_PK PRIMARY KEY (TRANSPORTID)

INSERT DATA

INSERT INTO CUSTOMER

INSERT INTO CUSTOMER VALUES(1000, 'Full', 'Priv', 'boab@hotmail.com', 9999999999,'New York', '5th Avenu', '1 St', 100);

INSERT INTO CUSTOMER VALUES(1234567893, 'Alex', 'Petroff', 'g@mail.com', 01857419623,'Dublin', 'Anne Lane', '43 Down', 43);

INSERT INTO CUSTOMER VALUES(200, 'Alex', 'Petroff', 'g@mail.com', 01857419623,'Dublin', 'Anne Lane', '43 Down', 43);

INSERT INTO CUSTOMER VALUES(201, 'Alex', 'Petroff', 'g@mail.com', 01857419623,'Dublin', 'Anne Lane', '43 Down', 43);

INSERT INTO CUSTOMER VALUES(202, 'Alex', 'Petroff', 'g@mail.com', 01857419623,'Dublin', 'Anne Lane', '43 Down', 43);

INSERT INTO CUSTOMER VALUES(203, 'Alex', 'Petroff', 'g@mail.com', 01857419623,'Dublin', 'Anne Lane', '43 Down', 43);

INSERT INTO CUSTOMER VALUES(205, 'John', 'Ivanoff', 'g@mail.com', 01857419587,'Longford', 'Anne Lane', '43 Down', 03

INSERT INTO CUSTOMER VALUES(207, 'Fill', 'Simirnoff', 'j@mail.com', 01858419623,'Limereck', 'Anne Lane', '43 Down', 5);

INSERT INTO CUSTOMER VALUES(208, 'Kst', 'Prutkoff', 'k@mail.com', 01857492123,'Kilkenny', 'Anne Lane', '43 Down', 6);

INSERT INTO CUSTOMER VALUES(209, 'Boris', 'Lery', 'ag@hotmail.com', 7414785987,'Galway', 'Bris St', '56/21', 68);

INSERT INTO CUSTOMER VALUES(210, 'Katty', 'Samuel', 'bt@rambler.eu', 3658745895,'Sligo', 'Andre Avenu', '65-12', 5);

INSERT INTO CUSTOMER VALUES(211, 'Fill', 'Abtaham', 'gf@pop.com', 6987458965,'Ballymurphy', 'Thomas St', '98-65 Down', 3);

INSERT INTO CUSTOMER VALUES(212, 'Kalif', 'Nasredinnovich', 'jy@etto.lt', 3652147527,'Buttevant', 'Taikos Lane', 'Saint Well', 7);

INSERT INTO CUSTOMER VALUES(213, 'Bobius', 'Shekspirus', 'kmail@mail.ru', 3658974521,'Hollyford', 'Partizany Street', 'Blump High', 9);

INSERT INTO CUSTOMER VALUES(214, 'Celovekus', 'Vulgarisus', 'st@gums.ie', 2569874521,'Portroe', 'Barrack Down', 'Under Low', 2);

INSERT INTO CUSTOMER VALUES(215, 'Edgard', 'Po', 'we@fgt.com', 3658974521,'Waterville', 'Lower Bay', '68 efst', 54);

INSERT INTO BOOK

INSERT INTO book VALUES(1, 25, 'Java Developer', 'Peter Trost', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(2, 25, 'Java Developer', 'Peter Trost', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(3, 25, 'Java Developer', 'Peter Trost', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(4, 25, 'Java Developer', 'Peter Trost', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(6, 15, 'Android', 'Trust', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(7, 35, 'HTML', 'Kust', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(8, 20, 'SQL PLUS', 'Zmust', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(10, 12, 'MySQL', 'Prust', 'Programming', 'Head First', '02-May-2005', 200);

INSERT INTO book VALUES(11, 55, 'Second World War', 'Stalin I.V.', 'History', 'RussBalt', '02-May-2011', 355);

INSERT INTO book VALUES(12, 32, 'Pirr', 'Alan Din Foster', 'Fantasy', 'RegMix', '02-May-2013', 355);

INSERT INTO book VALUES(13, 31, 'Android - Tech View', 'Vasilij Koshkin', 'Fantasy', 'TView', '01-Jan-2014', 235);

INSERT INTO book VALUES(14, 65, 'Science of Code', 'Michael Vov', 'Technology', 'ModernStyle', '25-Dec-2015', 155);

INSERT INTO book VALUES(15, 16, 'The Ruling Class', 'Caetano Mosca', 'Politics', ' McGrawHillCompany', '23-Jun-2008', 368);

INSERT INTO book VALUES(16, 68, 'Scientific Industries', 'Alexander Watt', 'Technology', 'Science', '06-Apr-1998', 297);

INSERT INTO ORDERS

INSERT INTO ORDERS VALUES (001, 1234567893, '08-Apr-2015', '09-Apr-2015', 'Card', 'Y');

INSERT INTO ORDERS VALUES (002, 1234567893, '08-Apr-2015', '09-Apr-2015', 'Card', 'Y');

INSERT INTO ORDERS VALUES (003, 1234567893, '08-Apr-2015', '09-Apr-2015', 'Card', 'Y');

INSERT INTO ORDERS VALUES (004, 1234567893, '08-Apr-2015', '09-Apr-2015', 'Card', 'Y');

INSERT INTO ORDERS VALUES (005, 1234567893, '08-Apr-2015', '09-Apr-2015', 'Card', 'Y');

INSERT INTO ORDERS VALUES (006, 201, '08-Jan-2015', '09-Apr-2015', 'Cash', 'Y');

INSERT INTO ORDERS VALUES (007, 202, '08-Dec-2015', '09-Apr-2015', 'Check', 'N');

INSERT INTO ORDERS VALUES (008, 204, '08-Feb-2015', '09-Apr-2015', 'Cash', 'Y');

INSERT INTO ORDERS VALUES (009, 210, '12-Mar-2013', '19-Mar-2013', 'Card', 'N');

INSERT INTO ORDERS VALUES (010, 211, '24-Feb-2015', '09-Mar-2015', 'Check', 'N');

INSERT INTO ORDERS VALUES (011, 212, '08-Apr-2012', '15-Apr-2012', 'Check', 'Y');

INSERT INTO ORDERS VALUES (012, 213, '25-Jul-2011', '03-Jul-2011', 'Card', 'N');

INSERT INTO ORDERS VALUES (013, 214, '12-Aug-2015', '19-Aug-2015', 'Cash', 'Y');

INSERT INTO ORDERS VALUES (014, 215, '21-Nov-2015', '30-Nov-2015', 'Check', 'Y');

INSERT INTO ORDERS VALUES (015, 209, '06-Oct-2009', '09-Oct-2009', 'Cash', 'N');

INSERT INTO ORDERLINE

INSERT INTO ORDERLINE VALUES (100, 001, 1, 50, 2);

INSERT INTO ORDERLINE VALUES (101, 002, 1, 50, 2);

INSERT INTO ORDERLINE VALUES (103, 003, 1, 50, 2);

INSERT INTO ORDERLINE VALUES (104, 004, 2, 50, 2);

INSERT INTO ORDERLINE VALUES (105, 005, 3, 32, 2);

INSERT INTO ORDERLINE VALUES (107, 00, 4, 52, 2);

INSERT INTO ORDERLINE VALUES (106, 5, 13, 3, 93);

INSERT INTO ORDERLINE VALUES (107, 7, 14, 5, 325);

INSERT INTO ORDERLINE VALUES (108, 9, 15, 7,112 );

INSERT INTO ORDERLINE VALUES (109, 10, 16, 1, 68);

INSERT INTO ORDERLINE VALUES (110, 11, 11, 8, 440);

INSERT INTO ORDERLINE VALUES (111, 12, 12, 9, 288);

INSERT INTO ORDERLINE VALUES (112, 13, 8, 4, 80);

INSERT INTO PAYMENT

INSERT INTO PAYMENT VALUES(1, 2, '8-Apr-2015', 50, '08-Apr-2015')

INSERT INTO PAYMENT VALUES(2, 1, '8-Apr-2015', 50, '08-Apr-2015');

INSERT INTO PAYMENT VALUES(3, 2, '8-Apr-2015', 50, '08-Apr-2015');

INSERT INTO PAYMENT VALUES(4, 3, '8-Apr-2015', 50, '08-Apr-2015');

INSERT INTO PAYMENT VALUES(8, 12, '01-Apr-11', 250, '23-Apr-2015');

INSERT INTO PAYMENT VALUES(9, 13, '12-Feb-15', 125, '23-Apr-2015');

INSERT INTO PAYMENT VALUES(10, 14, '21-Mar-15', 20, '23-Apr-2015');

INSERT INTO PAYMENT VALUES(11, 15, '06-Oct-09', 235, '23-Apr-2015');

INSERT INTO PAYMENT VALUES(12, 10, '08-Jan-15', 152, '23-Apr-2015');

INSERT INTO CCHECK

INSERT INTO CCHECK VALUES (9876543213, 1, ‘AIB’);

INSERT INTO CCHECK VALUES(9876543212,2, 'Ulster');

INSERT INTO CCHECK VALUES(9876543211,3, 'Bank of Ireland');

INSERT INTO CCHECK VALUES(9876543210,4, 'PRTB');

INSERT INTO CCHECK VALUES(8574165897,11, 'B&D Bank');

INSERT INTO CCHECK VALUES(3658741256,7, 'Swed Bank');

INSERT INTO CCHECK VALUES(8574165897,12, 'Parysh Credit');

INSERT INTO CARD

INSERT INTO CARD VALUES(5987458799, 1, 'Debit', '02-May-2016', 'John Brown', 'USA, NY, 5th Avenu');

INSERT INTO CARD VALUES(5987458798, 2, 'Credit', '25-Aug-2018', 'John Red', 'Canada, Ottava, 5th Avenu');

INSERT INTO CARD VALUES(5987458797, 3, 'MasterCard', '05-Sep-2020', 'John White', 'Ireland, Cork, 5TH Square');

INSERT INTO CARD VALUES(5987458796, 4, 'VisaGold', '18-Feb-2019', 'John Gray', 'UK, Liverpool, Island Street');

INSERT INTO CARD VALUES(6958741256, 7, 'Maestro Card', '14-May-2021', 'Alex Boldwin', 'USA, Boston, Avenue 14/21');

INSERT INTO CARD VALUES(5987455698, 8, 'Visa Platinum', '06-Jan-2016', 'Silvestr Stallone', 'ESP, Madrid, Saint Pat');

INSERT INTO CARD VALUES(5987452012, 9, 'SwedMedCard', '04-Apr-2017', 'John Rembo', 'RUS, Piter, Partizany - 22');

INSERT INTO CARD VALUES(5987450036, 10, 'AIB Student', '09-Dec-2015', 'Potc Valera', 'IRE, Cork, Mary Street');

INSERT INTO STAFF

INSERT INTO STAFF VALUES(1001, 001, 'Michail Gorbachev', 'cust@hotmail.com', 'Customer');

INSERT INTO STAFF VALUES(1000, 001, 'Barack Obama', 'boba@hotmail.com', 'Manager');

INSERT INTO STAFF VALUES(500, 001, 'Mors Tors', 'mt@mail.eu', 'Despatcher');

INSERT INTO STAFF VALUES(501, 002, 'Cus Tus', 'ct@hotmail.ie', 'Accounter');

INSERT INTO STAFF VALUES(502, 003, 'Shmus Plus', 'sp@gmail.com', 'Warehouse');

INSERT INTO STAFF VALUES(503, 004, 'Gnus Zmus', 'gz@wit.ie', 'Driver');

INSERT INTO STAFF VALUES(504, 004, 'Gnus Zmus', 'gz@wit.ie', 'Driver');

INSERT INTO STAFF VALUES(505, 003, 'Doddy Doddy', 'PL@mail.eu', 'Administrator');

INSERT INTO STAFF VALUES(509, 005, 'Smuli Smuli', 'TY@wit.ie', 'Dispatcher');

INSERT INTO STAFF VALUES(507, 007, 'Muli Muli', 'TR@gmail.com', 'Warehouseman');

INSERT INTO STAFF VALUES(511, 007, 'Fast as Bullet', 'fb@gmail.com', 'Courier');

INSERT INTO COLLECTION POINT

INSERT INTO COLLECTIONPOINT VALUES(255,500, '05-Aug-2015', '08-Feb-2015' );

INSERT INTO COLLECTIONPOINT VALUES(256,501, '05-Aug-2015', '08-Feb-2015' );

INSERT INTO COLLECTIONPOINT VALUES(257,502, '05-Aug-2015', '08-Feb-2015' );

INSERT INTO COLLECTIONPOINT VALUES(258,503, '05-Aug-2015', '08-Feb-2015' );

INSERT INTO COLLECTIONPOINT VALUES(001, 500, '05-Aug-2015','08-Feb-2015');

INSERT INTO COLLECTIONPOINT VALUES(002, 501, 'Mon-Fri,9:00-17:00','08-Feb-2015');

INSERT INTO CUSTCOLL

INSERT INTO CUSTCOLL VALUES(001);

INSERT INTO CUSTCOLL VALUES(001);

INSERT INTO CUSTCOLL VALUES(001);

INSERT INTO CUSTCOLL VALUES(001);

INSERT INTO CUSTCOLL VALUES(001);

INSERT INTO CUSTCOLL VALUES(001);

INSERT INTO CUSTCOLL VALUES(003);

INSERT INTO CUSTCOLL VALUES(002);

INSERT INTO CUSTCOLL VALUES(004);

INSERT INTO DELIVERY

INSERT INTO DELIVERY VALUES(10,001,'01-Aug-2015', 'Dublin, Low Street 13, App 4', 10);

INSERT INTO DELIVERY VALUES(11,002,'21-Aug-2015', 'Cork, Place Hall 01, Flat 10', 5);

INSERT INTO DELIVERY VALUES(12, 003, '01-Sep-2015', 'Waterford, Barrack Street 15', 10);

INSERT INTO DELIVERY VALUES(13, 004, '21-Jun-2015', 'Longford, Penrose Lane 15',5);

INSERT INTO DELIVERY VALUES(14, 005, '26-Jul-2015', 'Longford Harbour Point 55',15);

INSERT INTO DELIVERY VALUES(15,001,'01-Aug-2015', 'Sligo, Low Street 13, App 4', 10);

INSERT INTO DELIVERY VALUES(16,002,'21-Aug-2015', 'Athlone, Place Hall 01, Flat 10', 5);

INSERT INTO DELIVERY VALUES(17, 003, '01-Sep-2015', 'New Ross, Barrack Street 15', 10);

INSERT INTO DELIVERY VALUES(18, 004, '21-Jun-2015', 'Bray, Penrose Lane 15',5);

INSERT INTO DELIVERY VALUES(19, 005, '26-Jul-2015', 'Limerick Harbour Point 55',15);

INSERT INTO COURIER

INSERT INTO COURIER VALUES(201, 'Tdex');

INSERT INTO COURIER VALUES(202, 'ParcellServ');

INSERT INTO COURIER VALUES(203, 'FastDelivery');INSERT INTO COURIER VALUES(204, 'FeDex');

INSERT INTO COURIER VALUES(205, 'FastWay');

INSERT INTO COURIER VALUES(206, 'FlySpeed');

INSERT INTO COURIER VALUES(207, 'Bistro');

INSERT INTO COURIER VALUES(208, 'StarWa');

INSERT INTO TRANSPORT

INSERT INTO TRANSPORT VALUES(301, 'Stadium, Queens Road ON LEFT

GO ON Queens Road TOWARDS MG Road Junction,

CONTINUE INTO Lavelle Road');

INSERT INTO TRANSPORT VALUES(302, 'Black Road ON LEFT

GO ON White Road TOWARDS MG Road Junction,

CONTINUE INTO Lavelle Road');

INSERT INTO TRANSPORT VALUES(987, 'Start from Tesco, first traffic light, left, to M1-7 MILES,AFTER TOLL NEXT RIGHT-FIRST, RED HOUSE');

INSERT INTO TRANSPORT VALUES(303, 'Cork-Waterford-Kilkenny(Patrick Street, South House App 34, Tel 0857458956');

INSERT INTO TRANSPORT VALUES(304, 'Dublin-Athlone(M50)-Sligo(Castle Street - High Street - 7 OConnell Street 24');

List of queries

**List all Programming books with price less than 20**

SELECT price, genre

FROM book

WHERE (Price<20) AND (Genre='Programming');

**Find the book with lowest price**

Select BookID, Title, Price

FROM book

WHERE Price = (select MIN(Price) FROM book);

Find orders payment was made by Card and already paid

SELECT ORDERID, CUSTOMERID, PAYMENT\_METH, STATUS

FROM ORDERS

WHERE PAYMENT\_METH = 'Card' AND Status = 'Y';

**Retrieve all Customers Names, Payment Method and OrderID**

SELECT ORDERS.ORDERID, CUSTOMER.CNAME, CUSTOMER.CSURNAME, ORDERS.PAYMENT\_METH  
FROM ORDERS  
INNER JOIN CUSTOMER  
ON ORDERS.CUSTOMERID=CUSTOMER.CUSTOMERID;

**Retrieve all Customers Names, from Dublin**

SELECT \* FROM CUSTOMER

WHERE

CNAME IN (SELECT CNAME FROM CUSTOMER WHERE CITY = 'Dublin') ;

**Sort all stuff by Job Title by ASC Order**

SELECT \* FROM STAFF ORDER BY (CASE SJTITLE WHEN 'DRIVER' THEN 1

WHEN ‘ADMINISTRATOR’ THEN 2

WHEN 'MANAGER' THEN 3

WHEN 'DISPATCHER' THEN 4

ELSE 10 END) DESC, SJTITLE ASC;

**To watch data from two tables by creating view**

CREATE VIEW ORDERSVIEW

AS SELECT ORDERID, DEL\_DATE, CUSTOMER.CUSTOMERID,

CNAME, CITY

FROM ORDERS, CUSTOMER

WHERE CUSTOMER.CUSTOMERID=ORDERS.CUSTOMERID;

View created.

SELECT\* FROM ORDERSVIEW;

**Retrieve information about payments, customer names, and status, and delivery date**

SELECT ORDER\_DATE, CNAME, AMOUNT, STATUS

FROM ORDERS, CUSTOMER, PAYMENT

WHERE ORDERS.CUSTOMERID = CUSTOMER.CUSTOMERID;

**List all Orders for Programming books costing under €25 where the publisher is Head First and STATUS = ‘Y’.**

SELECT BOOKID, TITLE, PRICE

FROM BOOK

WHERE GENRE ='Programming' AND PRICE <=25 AND publisher = 'Head First' and BOOKID IN (SELECT BOOKID

FROM ORDERLINE

WHERE ORDERID IN (SELECT ORDERID

FROM ORDERS

WHERE STATUS= 'Y'));

**List of payment which was made by check and in Cork city**

SELECT PaymentID, Amount

FROM PAYMENT

WHERE ORDERID IN (SELECT ORDERID

FROM ORDERS WHERE PAYMENT\_METH='Check'

AND CUSTOMERID IN (SELECT CUSTOMERID

FROM CUSTOMER

WHERE CITY= 'Cork'));

Viewing records from a book without knowing exact details

SELECT \* FROM BOOK WHERE GENRE LIKE 'P%g';

**Select customers who create an order**

SELECT CNAME, CITY, ORDER\_DATE

FROM CUSTOMER

LEFT JOIN ORDERS

ON CUSTOMER.CUSTOMERID = ORDERS.CUSTOMERID

INTERSECT

SELECT CNAME, CITY, ORDER\_DATE

FROM CUSTOMER

RIGHT JOIN ORDERS

ON CUSTOMER.CUSTOMERID = ORDERS.CUSTOMERID;

**Security**

Manager (ADUNPHY)

GRANT ALL ON BOOK TO ADUNPHY;

GRANT ALL ON STAFF TO ADUNPHY;

GRANT ALL ON CUSTOMER TO ADUNPHY;

GRANT ALL ON PAYMENT TO ADUNPHY;

GRANT ALL ON ORDERS TO ADUNPHY;

GRANT ALL ON DELIVERY TO ADUNPHY;

GRANT ALL ON ORDERLINE TO ADUNPHY;

GRANT ALL ON COURIER TO ADUNPHY;

GRANT ALL ON TRANSPORT TO ADUNPHY;

ADMINISTRATOR (W20061961)

GRANT ALL ON BOOK TO W20061961;

GRANT ALL ON STAFF TO W20061961;

GRANT ALL ON CUSTOMER TO W20061961;

GRANT ALL ON PAYMENT TO W20061961;

GRANT ALL ON ORDERS TO W20061961;

GRANT ALL ON DELIVERY TO W20061961;

GRANT ALL ON ORDERLINE TO W20061961;

GRANT ALL ON COURIER TO W20061961;

GRANT ALL ON TRANSPORT TO W20061961;

STAFF (W20062427)

GRANT SELECT, INSERT ON STAFF TO W20062742 WITH GRANT OPTION;

GRANT ALL ON ORDERLINE TO W20062742;

GRANT SELECT, UPDATE ON COLLECTIONPOINT TO W20062742;

ACCOUNTANT (MLyng)

GRANT SELECT, INSERT ON PAYMENT TO MLyng;

COURIER (W20022369)

GRANT SELECT ON ORDERS TO W20022398 WITH GRANT OPTION;

GRANT SELECT ON DELIVERY TO W20022398;