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Group number BPI172(2)

Practice 4

Ex. 1

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| --- |
| **Reader( ID, LastName, FirstName, Address, BirthDate)** |
| **Book ( ISBN, Title, Author, PagesNum, PubYear, PubName)** |
| **Publisher ( PubName, PubKind)** |
| **Category ( CategoryName, ParentCat)** |
| **Copy ( ISBN, CopyNumber, Shelf, Position)** |
| **Borrowing ( ReaderNr, ISBN, CopyNumber, ReturnDate)** |
| **BookCat ( ISBN, CategoryName )** |

a)

SELECT LastName FROM Reader WHERE Address = "%Moscow%"

b)

SELECT Author, Title, Publisher.PubKind FROM Book

INNER JOIN Publisher on Book.PubName = Publisher.PubName

WHERE Publisher.PubKind = 'Science' OR Publisher.PubKind = 'Reference'

c)

SELECT Author, Title from Book INNER JOIN Borrowing

ON Borrowing.ISBN = Book.ISBN INNER JOIN Reader ON

Reader.ID = Borrowing.ReaderNr AND

Reader.FirstName = 'Ivan' AND Reader.LastName = 'Ivanov'

d)

SELECT Book.ISBN from Book INNER JOIN BookCat ON

BookCat.ISBN = Book.ISBN AND BookCat.CategoryName = 'Mountain'

INNER JOIN Category ON BookCat.CategoryName = Category.CategoryName

AND ParentCat != 'Travel'

e)

SELECT LastName, FirstName FROM Reader

INNER JOIN Borrowing ON Borrowing.ReaderNr = Reader.ID

AND Borrowing.ReturnDate != null

Ex. 2

|  |
| --- |
| **City ( Name, Region )** |
| **Station ( Name, #Tracks, CityName, Region )** |
| **Train ( TrainNr, Length, StartStationName, EndStationName )** |
| **Connection ( FromStation, ToStation, TrainNr, Departure, Arrival)** |

A)

SELECT \* FROM Trains.Connection

INNER JOIN Trains.Station

ON Connection.FromStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Moscow")

AND Connection.ToStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Tver" OR Station.CityName = "Sankt-Pererburgs")

B)

SELECT \* FROM Trains.Connection

INNER JOIN Trains.Station

ON Connection.FromStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Moscow")

AND Connection.ToStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Tver" OR Station.CityName = "Sankt-Pererburgs")

AND day(Connection.Departure) = day(Connection.Arrival)

C)

SELECT \* FROM Trains.Connection

INNER JOIN Trains.Station

ON Connection.FromStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Moscow")

AND Connection.ToStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Tver")

AND day(Connection.Departure) = day(Connection.Arrival)

SELECT \* FROM Trains.Connection

INNER JOIN Trains.Station

ON Connection.FromStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Moscow")

AND Connection.ToStation = (

SELECT Station.Name FROM Trains.Station WHERE Station.CityName = "Tver")