

# ASSIGNMENT 01

**Microsoft Access**

**SQL Queries**



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June 05, 2007

### Book

BookId	Title	Author	Publication	EditionOrYear	Course	TotalBooks	OnHand
1	BUSINESS FOR THE 21ST CENTURY	Skinner & Ivancevich	Irwin Publishing Comapany	1992	BUS101	90	50
2	INTRODUCTION TO COMPUTERS	Peter Norton	McGraw Hill	5	CSE101	95	40
3	FUNCTIONS IN ENGLISH	John Blundell, Jonathan higgins, Nigel Middlemiss	Oxford University Press	1	ENG100	30	30
4	FUNCTIONS OF ENGLISH	Leo Jones	McGraw Hill	1	ENG100	20	19
5	PRINCIPLES OF ACCOUNTING	Jerry J. Weygandt, Donald E. Kaiso, Walter G. Kell	Wiley & Sons, Inc	6	ACT101	60	5
6	MARKETING	Philip Kotler, Gary Armstrong	Prentice Hall	12	MKT101	70	65
7	APPLIED MATHEMATICS FOR BUSINESS, ECONOMICS, LIFE SC. & SOCIAL SC.	R. A. Barnett & M. R. Zeigler	Undefined	7	MAT110	95	5
8	NEW HEADWAY (Intermediate Level)	John & Liz Soars	Undefined	2	ENG101	10	10
9	HIGH SCHOOL ENGLISH GRAMMER	Wren & Martin	Undefined	3	ENG101	5	4
10	INTERMEDIATE ENGLISH GRAMMER	Raymond Murphy	Undefined	1	ENG101	5	3
11	STATISTICAL TECHNIQUES IN BUSINESS AND ECONOMICS	R. D. Mason, D. A. Lind & M. G. Marchal	Prentice Hall: India	11	STA101	80	20
12	BUSINESS AND INFORMATION SYSTEMS	Robert C. Nickerson	Prentice Hall, India	2	MIS101	25	1
13	MANAGEMENT	Griffin, Ricky W.	Undefined	7	MGT101	85	80
14	MICROECONOMICS	Samuelson P. A. & Nordhaus W. D.	McGraw-Hill	1992	ECO101	95	90
15	MANAGERIAL ACCOUNTING	Ray H. Garison & Eric W. Noreen	McGraw-Hill-Irwin	10	ACT201	95	3
16	PRINCIPLES OF MACROECONOMICS	N. Gergory, Mankiw (GM)	The Dryden Press	13	ECO102	90	85
17	SAMS TEACH YOURSELF HTML 4 IN 24 HOURS	Dick Oliver	TechMedia	4	CSE102	60	1
18	SAMS TEACH YOURSELF JAVASCRIPT IN 24 HOURS	Michael Moncur	TechMedia	2	CSE102	50	15
19	ASP 3 PROGRAMMING BIBLE	Eric A. Smith, MCSD	Undefined	5	CSE102	10	2
20	COLLEGE WRITING SKILLS WITH READINGS	Langan, J.	McGraw-Hil	2005	ENG102	15	12
21	MARKETING MANAGEMENT	Philip Kotler	Prentice Hall	11	MKT201	50	40
22	ESSENTIALS OF MANAGERIAL FINANCE	Besley, Brigham	Harcourt College Publishers	13	FIN101	80	5
23	BUSINESS COMMUNICATION : PRINCIPLE AND APPLICATION	Z. K. Quible, M. H. Jhonson, D. Mott	Prentice Hall	1996	BUS231	15	15
24	FUNDAMENTAL METHODS OF MATHEMATICAL ECONOMICS	Alpha C. Chiang	McGraw-Hill	1984	MAT311	5	1
25	ORGANIZATIONAL BEHAVIOR	Stephen P. Robbins	Prentice-Hall	10	MGT251	50	4
26	INTERNATIONAL BUSINESS ENVIRONMENTS AND OPERATIONS	John D. Daniels, Lee H. Radebaugh, Daniel P. Sullivan	Pearson Education	10	ITB301	70	8
27	STATISTICAL TECHNIQUES IN BUSINESS & ECONOMICS	Douglas A. Lind, William G. Marchal & Samuel A. Wathen	McGraw Hill-Irwin	12	STA217	95	7
28	CONSUMER BEHAVIOUR : CONCEPTS AND APPLICATIONS	David L. Loudon & Albert J Della Bitta	McGraw Hill-Irwin	4	MKT410	30	9
29	CONSUMER BEHAVIOUR : BUILDING MARKETING STRATEGY	Del I. Hawkins, Roger J. Best & Kenneth A. Coney	McGraw Hill-Irwin	9	MKT410	50	8

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30	PRINCIPLES OF MANAGERIAL FINANCE	Lawrence J. Gitman	Herper Collions Publishers Inc.	10	FIN201	90	2
31	ESSENTIALS OF MANAGERIAL FINANCE	Scott Besley & Eugene F. Brigham	The Dryden Press	12	FIN201	90	15
32	OPERATIONS MANAGEMENT	Roberta S. Russell & Bernard W. Taylor III	Prentice Hall	4	MGT337	30	28
33	PRINCIPLES OF MERCANTILE LAW	A Singh	Undefined	2000	BUS361	60	52
34	COMPANIES AND SECURITIES LAWS	Dr. M Zahir	UPL Books	2	BUS361	3	1
35	THE LAW AND THE PRACTICE OF INTERNATIONAL TRADE	Clive Schmitthoff	Sweet & Maxwell Limited	10	BUS361	2	1
36	MERCANTILE LAW	M. C. Kuchchal	Vikas Publishing House (Pvt) Ltd	2002	BUS361	20	19
37	MANAGEMENT INFORMATION SYSTEMS : MANAGING THE DIGITAL FIRM	Kenneth C. Laudon & Jane P. Laudon	Prentice Hall	9	MIS305	8	2
38	BEGINNING SQL SERVER 2005 PROGRAMMING	Robert Vieira	Wrox Publication	2006	MIS406	15	3
39	ELECTRONIC COMMERCE FROM VISION TO FULFILLMENT	Elias M. Awad	Prentice Hall	2005	MIS419	25	6
40	BANGLAPEDIA	1200 Intellectuals	Asiatic Society	2006	GEN201	30	10

BookIssue					
ClientId	IssueDate	DueDate	ReturnDate	LateFee	BookId
2004310001	9/19/2006	9/28/2006	25-Sep-06	0	15
2004310002	9/18/2006	9/27/2006	24-Sep-06	0	16
2004310002	9/9/2006	9/18/2006	15-Sep-06	0	2
2004310003	5/17/2006	5/26/2006	23-May-06	0	19
2004310004	9/13/2006	9/22/2006	25-Sep-06	25	18
2004310004	10/25/2006	11/3/2006	01-Nov-06	0	31
2004310004	10/10/2006	10/19/2006	18-Oct-06	0	18
2004310005	5/20/2006	5/29/2006	26-May-06	0	19
2004310005	9/29/2006	10/8/2006	11-Oct-06	10	32
2004310006	5/14/2006	5/23/2006	20-May-06	0	17
2004310006	12/10/2006	12/19/2006	18-Dec-06	0	38
2004310006	6/18/2006	6/27/2006	18-Jul-06	60	7
2004310007	9/12/2006	9/21/2006	18-Sep-06	0	27
2004310007	10/10/2006	10/19/2006	30-Oct-06	15	20
2004310008	5/21/2006	5/30/2006	27-May-06	0	22
2004310008	5/13/2006	5/22/2006	19-May-06	0	28
2004310009	9/11/2006	9/20/2006	17-Sep-06	0	18
2004310009	5/20/2006	5/29/2006	26-May-06	0	29
2004310010	9/12/2006	9/21/2006	24-Sep-06	40	5
2004310010	5/22/2006	5/31/2006	28-May-06	0	16
2004310011	6/30/2006	7/9/2006	12-Jul-06	30	15
2004310011	5/18/2006	5/27/2006	24-May-06	0	3
2004310012	9/10/2006	9/19/2006	16-Sep-06	0	1
2004310013	5/16/2006	5/25/2006	28-May-06	10	13
2004310013	5/21/2006	5/30/2006	27-May-06	0	20
2004310013	9/23/2006	10/2/2006	01-Oct-06	0	20
2004310013	10/9/2006	10/18/2006	29-Oct-06	20	21
2004310014	5/15/2006	5/24/2006	21-May-06	0	14
2004310015	6/1/2006	6/10/2006	21-Jun-06	15	23
2004310016	6/16/2006	6/25/2006	06-Jul-06	30	22
2004310017	12/10/2006	12/19/2006	18-Dec-06	0	24
2004310017	6/25/2006	7/4/2006	25-Jul-06	50	8
2004310018	6/25/2006	7/4/2006	14-Jul-06	20	34
2004310019	9/11/2006	9/20/2006	17-Sep-06	0	4
2004310019	5/13/2006	5/22/2006	28-May-06	25	18
2004310020	9/24/2006	10/3/2006	02-Oct-06	0	33
2004310020	6/17/2006	6/26/2006	04-Jul-06	35	25
2004310021	9/24/2006	10/3/2006	02-Oct-06	0	19
2004310021	6/18/2006	6/27/2006	26-Jun-06	0	26
2004310022	5/22/2006	5/31/2006	28-May-06	0	21
2004310022	9/12/2006	9/21/2006	27-Sep-06	15	19
2004310022	6/26/2006	7/5/2006	15-Jul-06	25	40
2004310023	8/13/2006	8/22/2006	02-Sep-06	40	35
2004310023	6/19/2006	6/28/2006	08-Jul-06	25	17
2004310024	9/13/2006	9/22/2006	25-Sep-06	20	17
2004310024	5/20/2006	5/29/2006	04-Jun-06	30	24
2004310024	5/21/2006	5/30/2006	27-May-06	0	25
2004310024	8/12/2006	8/21/2006	20-Aug-06	0	36
2004310024	6/27/2006	7/6/2006	05-Jul-06	0	27
2004310025	5/22/2006	5/31/2006	28-May-06	0	26
2004310025	8/16/2006	8/25/2006	24-Aug-06	0	37

BookIssue					
ClientId	IssueDate	DueDate	ReturnDate	LateFee	BookId
2004310025	10/18/2006	10/27/2006	26-Oct-06	0	6
2004310026	5/20/2006	5/29/2006	26-May-06	0	23
2004310026	6/10/2006	6/19/2006	18-Jun-06	0	24
2004310027	6/21/2006	6/30/2006	11-Jul-06	50	23
2004310027	6/25/2006	7/4/2006	25-Jul-06	60	9
2004310028	7/11/2006	7/20/2006	19-Jul-06	0	21
2004310029	6/2/2006	6/11/2006	10-Jun-06	0	22
2004310030	5/20/2006	5/29/2006	26-May-06	0	30
2004310030	6/19/2006	6/28/2006	09-Jul-06	20	39

Client			
ClientId	CellNo	Name	Address
2004310001	1911656596	Sumon	Azimpur
2004310002	1911656595	Tareq	Azimpur
2004310003	1911656594	Sumaya	Gulshan
2004310004	1911656591	Salam	Gulshan
2004310005	1911656591	Abdul	Gulshan
2004310006	1911656590	Fatema	Banani
2004310007	1911656589	Shaheen	DOHS
2004310008	1911656588	Sharmin	Banani
2004310009	1819166556	Shanto	Savar
2004310010	1819626555	Rezwan	Savar
2004310011	1819686554	Sunya	Azimpur
2004310012	1819668553	Rahim	Banani
2004310013	1819266552	Sunny	Mohakhali
2004310014	1819666551	Bony	Savar
2004310015	1819665950	Amit	Lalbag
2004310016	1526658851	Adity	Mohakhali
2004310017	1526681851	Rony	DOHS
2004310018	1526688550	Bokhari	Motijheel
2004310019	1526668850	Afroz	Uttara
2004310020	1526688749	Cathirina	Savar
2004310021	1526668848	Zahid	Lalbag
2004310022	1526688447	Jamal	Azimpur
2004310023	1526668846	Asif	Gulshan
2004310024	1526968845	Simon	Lalbag
2004310025	1524668844	Mahbub	Uttara
2004310026	1199225591	Sifat	Mohakhali
2004310027	1199225590	Shojib	DOHS
2004310028	1199225590	Sitara	Motijheel
2004310029	1199225589	Younus	Uttara
2004310030	1199225588	Aziz	Motijheel

## QUERIES

01

```
SELECT ClientId, IssueDate  
FROM BookIssue  
ORDER BY IssueDate, ReturnDate DESC;
```

02

```
SELECT Sum(LateFee) AS Lbr_Late_Fee, Max(LateFee) AS Maximum_Fee, Avg(LateFee) AS  
PerHeadFee, Min(LateFee) AS MinimumFee  
FROM BookIssue  
WHERE LateFee>0;
```

03

```
SELECT Title, Course  
FROM Book  
WHERE Publication="McGraw" Or TotalBooks>=50;
```

04

```
SELECT *  
FROM Book  
WHERE Publication Like "*Mc*";
```

05\_2

```
SELECT Publication, Count(Publication) AS Books  
FROM Book  
GROUP BY Publication;
```

05

```
SELECT Address, Count(ClientId) AS No_Students  
FROM Client  
WHERE (Address<>"Azimpur" And Address<>"Gulshan") Or (Address="DOHS" And  
Address="Banani")  
GROUP BY Address;
```

06

```
SELECT ClientId, Name  
FROM Client  
ORDER BY Name;
```

07\_2

```
SELECT Address, Name  
FROM Client  
ORDER BY Name DESC , Address;
```

7

```
SELECT BookIssue.ClientId, BookIssue.LateFee, Book.Title  
FROM Book, BookIssue  
WHERE Book.BookId=BookIssue.BookId And BookIssue.LateFee>0;
```

08

```
SELECT (BookIssue.LateFee)*1.15 AS LatefeeWithVAT, *  
FROM BookIssue, Book  
WHERE Book.BookId=BookIssue.BookId And BookIssue.LateFee>=10;
```

09

```
SELECT *  
FROM Book, BookIssue  
WHERE Book.bookId=BookIssue.BookId And BookIssue.ClientId Between 2004310011 And  
2004310020 And BookIssue.LateFee<>0;
```

10

```
SELECT BookId from Book  
UNION ALL Select BookId from BookIssue;
```

11

```
SELECT BookIssue.ClientId, Book.Author  
FROM Book, BookIssue  
WHERE Book.BookId=BookIssue.BookId And BookIssue.ClientId<2004310016;
```

12

```
SELECT ClientId from Client  
UNION Select ClientId from BookIssue;
```

13

```
SELECT ClientId from Client  
UNION ALL Select ClientId from BookIssue;
```

14

```
SELECT ClientId  
FROM BookIssue AS [Intersect];
```

15

```
SELECT *  
FROM Client, BookIssue  
WHERE Client.ClientId=BookIssue.ClientId;
```

16

```
SELECT Client.Name, Client.Address, BookIssue.LateFee  
FROM Client, BookIssue  
WHERE Client.ClientId=BookIssue.ClientId And BookIssue.LateFee<=20 And  
BookIssue.LateFee<>0;
```

17

```
SELECT *  
FROM Client, Book, BookIssue;
```

18

```
SELECT Client.Name, BookIssue.LateFee  
FROM Client, Book, BookIssue
```

WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 Book.Course="MIS419";

19

SELECT Client.Name, Client.CellNo, Client.Address, Book.Course  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 BookIssue.LateFee<>0;

20

SELECT Client.ClientId, BookIssue.DueDate+5 AS NewDueDate  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 Book.OnHand>10;

21

SELECT Client.Name, Client.Address, Book.Publication, BookIssue.LateFee-8 AS NewLateFee  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 BookIssue.LateFee>=40;

22

SELECT \*  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 Client.ClientId=2004310001;

23

SELECT \*  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 Client.Address="Azimpur";

24

SELECT \*  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 BookIssue.LateFee>0;

25

SELECT Book.Course, BookIssue.LateFee, Client.Address, Book.TotalBooks-Book.OnHand AS  
 BooksOut  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId;

26

SELECT Client.ClientId, BookIssue.IssueDate, Book.Title  
 FROM Client, Book, BookIssue  
 WHERE Client.ClientId=BookIssue.ClientId And Book.BookId=BookIssue.BookId And  
 Book.EditionOrYear=2006;