

## INFO 6210 Data Management and Database Design

### Assignment 1

Exercise 1:

```
1 • set autocommit = 1;
2 • start transaction;
3 •   insert into bookorders values (112, 14356, 5);
4 •   update bookorders set quantity = 3 where orderid = 104;
5 •
6 • SELECT * FROM exercise.bookorders;
```

OrderID	BookID	Quantity
101	12786	1
101	13331	1
101	16284	2
102	15729	3
102	19354	1
103	12786	2
103	13331	1
103	14356	2
103	19264	1
104	19354	3
105	14356	2
105	15729	1
106	13331	1
106	16284	2
107	12786	3
108	16284	4
108	19354	1
109	15729	1
110	12786	2
110	13331	2
110	14356	2
111	14356	2
112	14356	5
NULL	NULL	NULL

Exercise 2:

```
1 • set autocommit = 0;
2 • start transaction;
3 •   insert into bookorders values (113, 14356, 5);
4 •   update bookorders set quantity = 3 where orderid = 104;
5 • commit;
6 • SELECT * FROM exercise.bookorders;
```

OrderID	BookID	Quantity
101	12786	1
101	13331	1
101	16284	2
102	15729	3
102	19354	1
103	12786	2
103	13331	1
103	14356	2
103	19264	1
104	19354	3
105	14356	2
105	15729	1
106	13331	1
106	16284	2
107	12786	3
108	16284	4
108	19354	1
109	15729	1
110	12786	2
110	13331	2
110	14356	2
111	14356	2
112	14356	5
113	14356	5
NULL	NULL	NULL

Exercise 3:

```
1 • set autocommit = 0;  
2 • start transaction;  
3 •   insert into bookorders values (114, 14356, 5);  
4 •   update bookorders set quantity = 3 where orderid = 104;  
5 •   rollback;  
6 • commit;  
7 • SELECT * FROM exercise.bookorders;
```

OrderID	BookID	Quantity
101	12786	1
101	13331	1
101	16284	2
102	15729	3
102	19354	1
103	12786	2
103	13331	1
103	14356	2
103	19264	1
104	19354	3
105	14356	2
105	15729	1
106	13331	1
106	16284	2
107	12786	3
108	16284	4
108	19354	1
109	15729	1
110	12786	2
110	13331	2
110	14356	2
111	14356	2
113	14356	5

Exercise 4:

```
1 • start transaction;  
2 •   insert into bookorders values (115, 14356, 5);  
3 •   savepoint save1;  
4 •   update bookorders set quantity = 3 where orderid = 104;  
5 • commit;  
6 • SELECT * FROM exercise.bookorders;  
7
```

OrderID	BookID	Quantity
101	12786	1
101	13331	1
101	16284	2
102	15729	3
102	19354	1
103	12786	2
103	13331	1
103	14356	2
103	19264	1
104	19354	3
105	14356	2
105	15729	1
106	13331	1
106	16284	2
107	12786	3
108	16284	4
108	19354	1
109	15729	1
110	12786	2
110	13331	2
110	14356	2
111	14356	2
113	14356	5
115	14356	5
NULL	NULL	NULL

### Exercise 5:

```
1 • start transaction;
2 • insert into bookorders values (117, 14356, 5);
3 • savepoint save1;
4 • update bookorders set quantity = 10 where orderid = 104;
5 • rollback to save1;
6 • commit;
7 • SELECT * FROM exercise.bookorders;
```

Result Grid

	OrderID	BookID	Quantity
	101	12786	1
	101	13331	1
	101	16284	2
	102	15729	3
	102	19354	1
	103	12786	2
	103	13331	1
	103	14356	2
	103	19264	1
	104	19354	3
	105	14356	2
	105	15729	1
	106	13331	1
	106	16284	2
	107	12786	3
	108	16284	4
	108	19354	1
	109	15729	1
	110	12786	2
	110	13331	2
	110	14356	2
	111	14356	2
	113	14356	5
	115	14356	5
	117	14356	5
	NULL	NULL	NULL

### Exercise 6:

```
11 • set autocommit = 0;
```

80 23:25:34 set autocommit = 0

### Exercise 7:

```
13 • set global transaction isolation level serializable;
```

81 23:27:56 set global transaction isolation level serializable

### Exercise 8:

```
15 • create table Produce(id int not null);
16 • create table Orders(id int not null);
17 • Lock table produce read, orders write;
```

82 23:31:58 create table Produce(id int not null)

83 23:31:58 create table Orders(id int not null)

84 23:32:21 Lock table produce read, orders write

## Assignment 2

Exercise 1:

```
4 • delete f1.* from filmstars as f1, filmstars as f2
5 • where (f1.starname = f2.starname) and (f1.starid > f2.starid);
6 • select * from filmstars;
7
8 • SET SQL_SAFE_UPDATES = 0;
```

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	starid	starname	stargate
	1	Boris Carlot	102
	1	Scarlet O' Hairpin	89
	4	Micheal Hourglass	56
	5	Dustv Hoffperson	48

## Assignment 3

Exercise 1:

```
1 • create view vFirstLastDOB as
2 • select firstname, lastname, dateofbirth from memberdetails;
3
4 • select * from vfirstlastdob;
```

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	firstname	lastname	dateofbirth
	Katie	Smith	1977-01-09
	Bob	Robson	1987-01-09
	Sandra	Jakes	1957-05-15
	Steve	Gee	1967-10-05
	John	Jones	1952-10-05
	Jennv	Jones	1953-08-25
	John	Jackson	1974-05-27
	Jack	Johnson	1945-06-09
	Sevmour	Botts	1956-10-21
	Susie	Simons	1937-01-20
	Jamie	Hills	1992-07-17
	Stuart	Dales	1956-08-07
	William	Doors	1994-05-28
	Doris	Night	1997-05-28
	Catherine	Hawthorn	NULL

### Exercise 2:

```
6 • create view vGoldenStateMembers as
7 • select * from memberdetails
8 • where state = 'Golden State';
9
10 • select * from vGoldenStateMembers;
```

Result Grid

	MemberId	FirstName	LastName	DateOfBirth	Street	City	State	ZipCode	Email	DateOfJoining
	3	Sandra	Jakes	1957-05-15	The Avenue	Windy Village	Golden State	65423	sandra@her mail.com	2004-04-13
	9	Sevmour	Botts	1956-10-21	Lono Lane	Windy Village	Golden State	65422	Sevmour@botts.ora	2005-07-17
	12	Stuart	Dales	1956-08-07	Lono Lane	Windy Village	Golden State	65422	sdales@mvmail.ora	2005-08-27
	14	Doris	Night	1997-05-28	White Cliff Street	Dover	Golden State	68122	dnight@whitedcliffs.net	2005-09-02

### Exercise 3:

```
12 • create view vGoldenStateMembersFirstLastDOB as
13 • select firstname, lastname, dateofbirth from vGoldenStateMembers;
14
15 • select * from vGoldenStateMembersFirstLastDOB;
```

Result Grid

	firstname	lastname	dateofbirth
	Sandra	Jakes	1957-05-15
	Sevmour	Botts	1956-10-21
	Stuart	Dales	1956-08-07
	Doris	Night	1997-05-28

### Exercise 4:

```
17 • drop view vgoldenstatemembersfirstlastdob;
18 • drop view vgoldenstatemembers;
19 • drop view vfirstlastdob;
```

✓	38	16:09:58	drop view vgoldenstatemembersfirstlastdob
✓	39	16:09:58	drop view vgoldenstatemembers
✓	40	16:09:58	drop view vfirstlastdob

## Assignment 4

### Exercise 1:

```
1 • set transaction isolation level read committed;
2 • start transaction;
3 • Update inventory
4 • set inventory.CheckedOut = 'Y'
5 • where inventoryId = 7;
6
7 • insert into rentals (inventoryid, memberid, dateout)
8 • select 7 as inventoryid, 3 as memberid, '2004/03/21' as dateout;
9
10 • commit;
```

✓	64	16:46:58	set transaction isolation level read committed	0 row(s) affected
✓	65	16:46:58	start transaction	0 row(s) affected
✓	66	16:46:58	Update inventory set inventory.CheckedOut = 'Y' where inventoryId = 7	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0
✓	67	16:46:58	insert into rentals (inventoryid, memberid, dateout) select 7 as inventoryid, ...	1 row(s) affected Records: 1 Duplicates: 0 Warnings: 0
✓	68	16:46:58	commit	0 row(s) affected

## Exercise 2:

```

12 • set transaction isolation level read uncommitted;
13 • start transaction;
14 • select * from films;
15 • commit;
16

```

FilmId	FilmName	YearReleased	PlotSummary	AvailableOnDVD	Rating	CategoryId	DVDPrice
1	The Dirty Half Dozen	1987	Six men go to war wearing unwashed uniforms. ...	N	2	4	NULL
2	On Golden Puddle	1967	A couple find love while wading through a puddle	Y	4	2	13.0
3	The Lion, the Witch, and the Chest of Drawers	1977	A fun film for all those interested in zoo/magic/f...	N	1	3	NULL
4	Nightmare on Oak Street. Part 23	1997	The murderous Terrv stalks Oak Street	Y	2	3	10.0
5	The Wide Brimmed Hat	2005	Fascinating life story of a wide brimmed hat	N	1	5	NULL
6	Sense and Insensitivty	2001	She lonas for a new life with Mr Arcv. he lonas f...	Y	3	6	16.0
7	Planet of the Jaoes	1967	Earth has been destroyed. to be taken over bv ...	Y	5	4	13.0
8	The Maltese Poodle	1947	A mvsterious bite mark. a quiltv looking poodle. ...	Y	1	1	3.0
9	15th Late Afternoon	1989	One of Shakespeare's lesser known plays	N	5	6	13.0
10	Sovlent Yellow	1967	Detective Billy Brambles discovers Sovlent Yello...	Y	5	5	13.0
11	One Flew Over the Crow's Nest	1975	Life and times of a scarv crow.	Y	2	3	NULL
12	Racino Bullocks	1980	A pair of bulls oet cross with each other.	N	4	1	NULL
13	The Life Of Bob	1984	A 7 hour drama about Bob's life. What fun!	Y	1	1	NULL
14	Gone With the Window Cleaner	1988	Historical documentarv on window cleaners. Thr...	Y	3	6	NULL
15	The Good, the Bad, and the Facialv Challenged	1989	Joe seeks plastic surgery in this soadgetti West...	Y	5	6	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Exercise 3:

```

17 • set transaction isolation level serializable;
18 • start transaction;
19 • update inventory
20 • set CheckedOut = 'Y';
21 • commit;
22
23 • select * from inventory;
24

```

inventoryId	filmId	FormatId	CheckedOut
1	1	1	Y
2	1	2	Y
3	2	1	Y
4	2	2	Y
5	2	3	Y
6	3	2	Y
7	4	2	Y
8	4	3	Y
9	5	2	Y
10	5	3	Y
NULL	NULL	NULL	NULL