CPSC 304 Tutorial 10

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Deliverable 1

- Table name: customer
    - Attributes:
        * cid (Primary key)
        * cname
        * rating
        * salary
- Table name: item
    - Attributes:
        * iid (Primary key)
        * iname
        * type
- Table name: purchase
    - Attributes:
        * pid (Primary key)
        * cid (Foreign key, connected to customer)
        * iid (Foreign key, connected to item)
        * day
        * qty

Deliverable 2

The first query uses a table produced by inner join, but the second one uses a table produced by cross-product. Also the first query is clearer to read since the columns for joining are explicitly specified.

Deliverable 3

```sql
select c.cname
from customer c, purchase p, item i
where p.cid = c.cid and i.iid = p.iid and i.iname like '%Chocolate Frog%';
```

Deliverable 4

```sql
update purchase
set qty = 5
where iid in (
    select i.iid
    from customer c
    inner join purchase p on p.cid = c.cid
    inner join item i on i.iid = p.iid
    where c.cname like '%S. Uper%' and i.iname like '%Chocolate Frog%'
);
```

Deliverable 5

```sql
delete from purchase
where qty in (
    select top 1 p.qty
    from purchase p,item i
    where i .iid = p.iid and i.iname like '%Chocolate Frog%'
    order by p.qty desc);
```
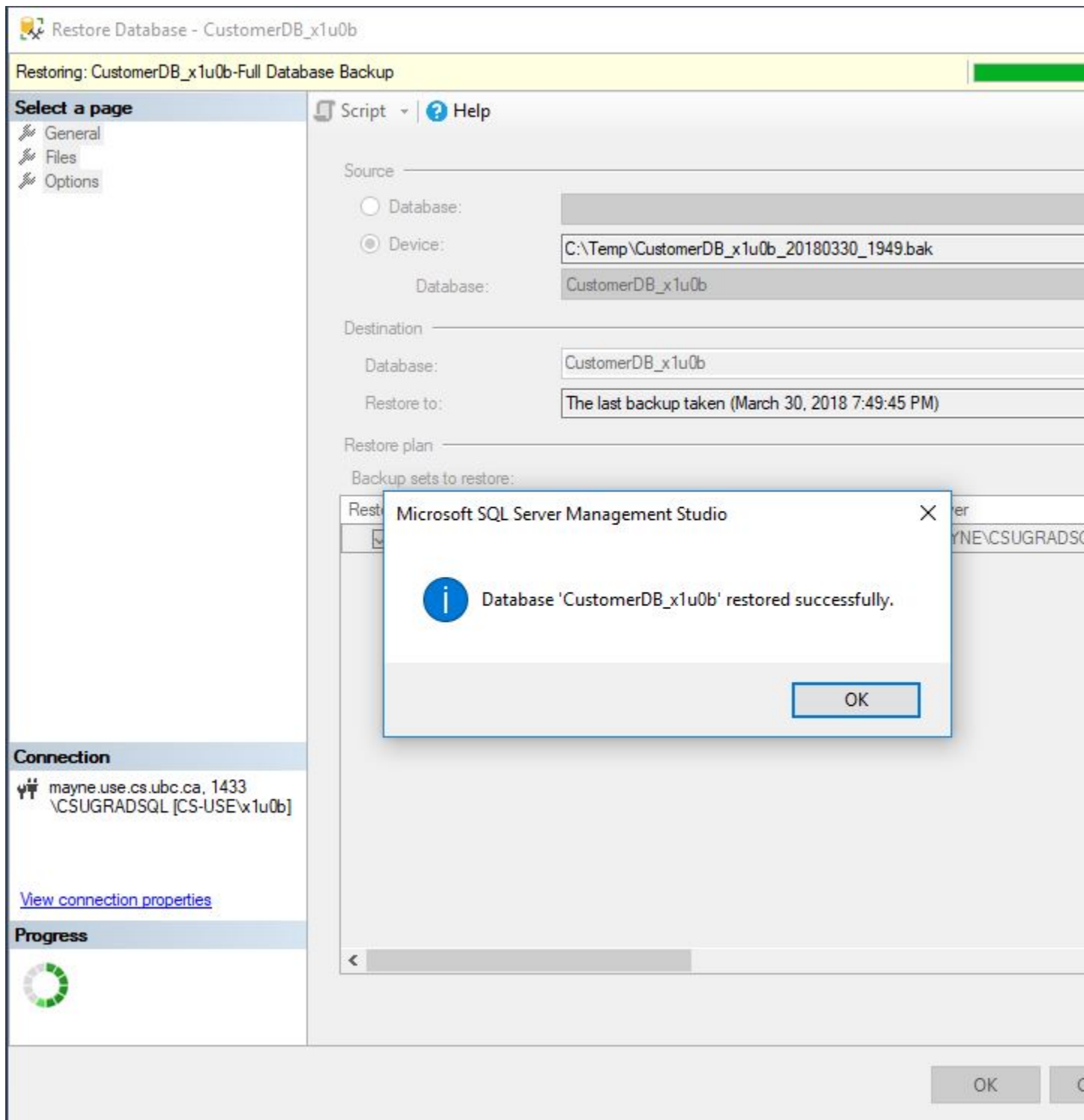
Deliverable 6

We cannot delete the entry with $iid = 180$ in item table because iid is used as a foreign key in the purchase table.

Deliverable 7

	cid	cname	rating	salary
1	35	foo	8	90
2	40	J. Justin	7	70
3	50	R. Rusty	10	80
4	55	A. Braca	10	80
5	60	D. Abra	10	80
6	65	S. Uper	5	50
7	70	C. AliFragi	6	60
8	75	L. Istic	4	80
9	80	E.X. Pial	3	30
10	85	I. Docious	10	100

Deliverable 8

Deliverable 9

	cid	cname	rating	salary
1	35	G. Grumpy	8	90
2	40	J. Justin	7	70
3	50	R. Rusty	10	80
4	55	A. Braca	10	80
5	60	D. Abra	10	80
6	65	S. Uper	5	50
7	70	C. AliFragi	6	60
8	75	L. Istic	4	80
9	80	E.X. Pial	3	30
10	85	I. Docious	10	100