# Lab 03: SQL INSERT-UPDATE-DELETE

#### -- Add column in customer table

alter table customer add city varchar(20); alter table customer add state varchar(20);

#### --Add column in items table

alter table items add reorderlevel integer; alter table items add averagepurchaseprice integer;

#### 1. Add 5 customers

insert into customer values(101,'Peril',380054,'periltalaviya123@gmail.com','Surat','Gujarat'); insert into customer values(102,'Aryan',380005,'aryanshah576@gmail.com','Ahmedabad','Gujarat'); insert into customer values(103,'Devesh',380015,'deveshsheth@gmail.com','Mumbai','Maharashtra'); insert into customer values(104,'Dhagash',380045,'dhagashshah@gmail.com','Bangalore','Karnataka'); insert into customer values(105,'Karina',380035,'karina@gmail.com','Amreli','Gujarat');

#### 2. Add 10 items

```
insert into items values(11101,'Milk',1,27,100,10,25); insert into items values(11102,'Pencil',2,10,25,10,12); insert into items values(11103,'Panner',1,15,20,5,10); insert into items values(11104,'Notebook',2,35,50,15,30); insert into items values(11105,'Lassi',1,20,32,8,13);
```

```
insert into items values(11106,'Headphones',3,1500,22,4,1200); insert into items values(11107,'Mobile',3,5000,10,2,4200); insert into items values(11108,'Ice-cream',1,15,15,6,9); insert into items values(11109,'TV',3,20000,5,1,18000); insert into items values(11110,'Pen',2,22,32,8,13);
```

#### 3. Add 5 invoices

```
insert into invoice values(101,'2020-11-28',102); insert into invoice values(102,'2019-12-11',103); insert into invoice values(103,'2011-01-17',102); insert into invoice values(104,'2021-04-08',101); insert into invoice values(105,'2020-12-25',104);
```

#### 4. Add 2-4 items in all invoicedetails

```
insert into invoicedetails values(101,11101,2,54); insert into invoicedetails values(103,11108,4,60); insert into invoicedetails values(102,11102,10,100); insert into invoicedetails values(105,11110,3,66);
```

## 5. Update price of given item

update items set salesprice = 16.50 where item\_code = 11103;

# Before:

Dat	Data Output Explain Messages Notifications										
4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer				
1	11103	Panner	1	16.50	20	5	10				
2	11105	Lassi	1	22.00	32	8	13				
3	11106	Headphones	3	1650.00	22	4	1200				
4	11107	Mobile	3	5500.00	10	2	4200				
5	11108	Ice-cream	1	16.50	15	6	9				
6	11109	TV	3	22000.00	5	1	18000				
7	11102	Pencil	2	11.55	25	10	12				
8	11104	Notebook	2	40.43	50	15	30				
9	11110	Pen	2	25.41	32	8	13				

## After:

4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer
2	11106	Headphones	3	1650.00	22	4	1200
3	11107	Mobile	3	5500.00	10	2	4200
4	11108	Ice-cream	1	16.50	15	6	9
5	11109	TV	3	22000.00	5	1	18000
6	11102	Pencil	2	11.55	25	10	12
7	11104	Notebook	2	40.43	50	15	30
8	11110	Pen	2	25.41	32	8	13
9	11103	Panner	1	17.00	20	5	10

# 6. Give 10% increment to all items.

select \*,i.saleprice\*1.1 as IncrementPrice from items i;

4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer	incrementprice numeric
1	11105	Lassi		22.00	32	8	13	24.200
2	11106	Headphones	3	1650.00	22	4	1200	1815.000
3	11107	Mobile	3	5500.00	10	2	4200	6050.000
4	11108	lce-cream		16.50	15	6	9	18.150
5	11109	TV	3	22000.00	5		18000	24200.000
6	11102	Pencil	2	11.55	25	10	12	12.705
7	11104	Notebook	2	40.43	50	15	30	44.473
8	11110	Pen	2	25.41	32	8	13	27.951
9	11103	Panner		17.00	20	5	10	18.700

OR

update items set saleprice = saleprice + (saleprice \* 10/100);

# Before:

4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer
1	11105	Lassi	1	22.00	32	8	13
2	11106	Headphones	3	1650.00	22	4	1200
3	11107	Mobile	3	5500.00	10	2	4200
4	11108	Ice-cream	1	16.50	15	6	9
5	11109	TV	3	22000.00	5	1	18000
6	11102	Pencil	2	11.55	25	10	12
7	11104	Notebook	2	40.43	50	15	30
8	11110	Pen	2	25.41	32	8	13
9	11103	Panner	1	17.00	20	5	10

## After:

4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer
1	11105	Lassi		24.20	32	8	13
2	11106	Headphones	3	1815.00	22	4	1200
3	11107	Mobile	3	6050.00	10	2	4200
4	11108	lce-cream		18.15	15	6	9
5	11109	TV	3	24200.00	5		18000
6	11102	Pencil	2	12.71	25	10	12
7	11104	Notebook	2	44.47	50	15	30
8	11110	Pen	2	27.95	32	8	13
9	11103	Panner	1	18.70	20	5	10

# 7. Give 5% increments to all items for category = 2.

select \*,i.saleprice\*1.05 as IncrementPrice from items i where category\_id=2;

4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer	incrementprice numeric
	11102	Pencil	2	12.71	25	10	12	13.3455
	11104	Notebook	2	44.47	50	15	30	46.6935
	11110	Pen	2	27.95	32	8	13	29.3475

OR

update items set saleprice = saleprice + (saleprice \* 5/100) where category\_id=2;

## **Before:**

	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer
3	11107	Mobile	3	6050.00	10	2	4200
4	11108	Ice-cream	1	18.15	15	6	9
5	11109	TV	3	24200.00	5	1	18000
6	11102	Pencil	2	12.71	25	10	12
7	11104	Notebook	2	44.47	50	15	30
8	11110	Pen	2	27.95	32	8	13
9	11103	Panner	1	18.70	20	5	10
10	11101	Milk	1	29.70	100	10	25

# After:

	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer
3	11107	Mobile	3	6050.00	10	2	4200
4	11108	lce-cream		18.15	15	6	9
5	11109	TV	3	24200.00	5	1	18000
6	11103	Panner		18.70	20	5	10
7	11101	Milk		29.70	100	10	25
8	11102	Pencil	2	13.35	25	10	12
9	11104	Notebook	2	46.69	50	15	30
10	11110	Pen	2	29.35	32	8	13

# 8. Delete a given item from items item code = 11101

delete from items where item\_code = 11101;

Before:

_4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer
3	11107	Mobile		6050.00	10		4200
4	11108	lce-cream		18.15	15		9
5	11109	TV		24200.00			18000
6	11103	Panner		18.70	20		10
7	11101	Milk		29.70	100	10	25
8	11102	Pencil		13.35	25	10	12
9	11104	Notebook		46.69	50	15	30
10	11110	Pen		29.35	32	8	13

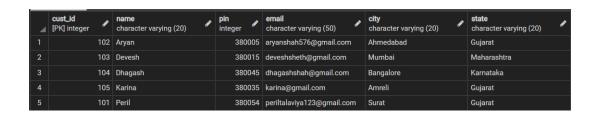
# After:

.4	item_code [PK] integer	item_name character varying (20)	category_id integer	saleprice numeric (9,2)	qty_in_stock smallint	reorderlevel integer	averagepurchaseprice integer
2	11106	Headphones		1815.00	22	4	1200
3	11107	Mobile		6050.00	10		4200
4	11108	Ice-cream		18.15	15		9
5	11109	TV		24200.00	5		18000
6	11103	Panner		18.70	20		10
7	11102	Pencil		13.35	25	10	12
8	11104	Notebook		46.69	50	15	30
9	11110	Pen	2	29.35	32	8	13

# 9. Delete a given customer = 101.

delete from customer where cust\_id = 101;

# Before:



4	invno [PK] integer	invdate date	customerid integer
1	101	2020-11-28	102
2	103	2011-01-17	102
3	105	2020-12-25	104
4	102	2019-12-11	103
5	104	2021-04-08	101

## After:

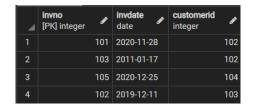
<b>1</b>	cust_id [PK] integer	name character varying (20)	pin integer	email character varying (50)	city character varying (20)	state character varying (20)
1	102	Aryan	380005	aryanshah576@gmail.com	Ahmedabad	Gujarat
2	103	Devesh	380015	deveshsheth@gmail.com	Mumbai	Maharashtra
3	104	Dhagash	380045	dhagashshah@gmail.com	Bangalore	Karnataka
4	105	Karina	380035	karina@gmail.com	Amreli	Gujarat

4	<b>invno</b> [PK] integer	/	invdate date	customerid integer	•
1		101	2020-11-28		102
2		103	2011-01-17		102
3		105	2020-12-25		104
4		102	2019-12-11		103

# 10. Delete all invoices of a given state '2019-12-11'; this should also delete all items of affected invoices.

delete from invoice where invdate = '2019-12-11';

## Before:



	4	invno [PK] integer	itemcode [PK] integer	qty integer	price numeric (9,2)
•		103	11108	4	60.00
	2	105	11110		66.00
	3	102	11102	10	100.00

## After:

