

MYSQL ASSIGNMENT

```
CREATE TABLE ITEM
```

```
(
```

```
  ITEMCODE VARCHAR(10) PRIMARY KEY
```

```
, ITEMNAME VARCHAR(200) NOT NULL
```

```
, MANUFACTURERNAME VARCHAR(200)
```

```
, UNITPRICE NUMERIC(10,2) CHECK(UNITPRICE>0)
```

```
, MANUFACTURINGYEAR DATE
```

```
, ITEMCATEGORY VARCHAR(20)
```

```
);
```

```
INSERT INTO ITEM VALUES ('IT101', 'LED32Inch', 'Samsung', 15000, '2015-11-14', 'Television');
```

```
INSERT INTO ITEM VALUES ('IT102', 'GalaxyS5', 'Samsung', 13000, '2016-04-16', 'Mobile');
```

```
INSERT INTO ITEM VALUES ('IT103', 'FrontLoad', 'Samsung', 20000, '2016-05-23',  
'WashingMachine');
```

```
INSERT INTO ITEM VALUES ('IT104', 'DualDoor', 'Samsung', 12000, '2015-11-20', 'Refrigerator');
```

```
INSERT INTO ITEM VALUES ('IT105', 'Pencils', 'Natraj', 2, '2016-01-11', 'Stationery');
```

```
INSERT INTO ITEM VALUES ('IT106', 'LED32Inch', 'LG', 19000, '2016-01-01', 'Television');
```

```
INSERT INTO ITEM VALUES ('IT107', 'LG G5 Sliver', 'LG', 11000, '2015-11-20', 'Mobile');
```

```
INSERT INTO ITEM VALUES ('IT108', 'TopLoad', 'LG', 25000, '2016-04-18', 'WashingMachine');
```

```
INSERT INTO ITEM VALUES ('IT109', 'FourDoor', 'LG', 18000, '2016-05-18', 'Refrigerator');
```

```
INSERT INTO ITEM VALUES ('IT110', 'Erasers', 'Camlin', 5, '2016-01-15', 'Stationery');
```

```
INSERT INTO ITEM VALUES ('IT111', 'LED32Inch', 'Sony', 22000, '2016-03-14', 'Television');
```

```
INSERT INTO ITEM VALUES ('IT112', 'Sony Xperia Z5', 'Sony', 9000, '2015-12-14', 'Mobile');
```

```
INSERT INTO ITEM VALUES ('IT113', 'FullyAutomatic', 'Sony', 22000, '2015-12-13',  
'WashingMachine');
```

```
INSERT INTO ITEM VALUES ('IT114', 'ThreeDoorNormal', 'Sony', 19000, '2016-06-14',  
'Refrigerator');
```

```
INSERT INTO ITEM VALUES ('IT115', 'Pens', 'Faber Castell', 10, '2016-01-11', 'Stationery');
```

```

INSERT INTO ITEM VALUES ('IT116', 'LED32Inch', 'Onida', 20000, '2016-02-19', 'Television');

INSERT INTO ITEM VALUES ('IT117', 'Onida i505', 'Onida', 10000, '2016-04-23', 'Mobile');

INSERT INTO ITEM VALUES ('IT118', 'SemiAutoMatic', 'Onida', 11000, '2015-12-13',
'WashingMachine');

INSERT INTO ITEM VALUES ('IT119', 'ThreeDoorLux', 'Onida', 18000, '2016-06-19', 'Refrigerator');

INSERT INTO ITEM VALUES ('IT120', 'Sharpner', 'Apsara', 5, '2016-01-21', 'Stationery');

INSERT INTO ITEM VALUES ('IT121', 'LED50Inch', 'Onida', 48000, '2015-03-25', 'Television');
INSERT INTO ITEM VALUES ('IT122', 'ThreeDoor', 'Thomson', 21000, '2017-05-25', 'Refrigerator');

INSERT INTO ITEM VALUES ('IT123', 'LED50Inch', 'LG', '38000', '2019-07-28', 'Television');

INSERT INTO ITEM VALUES ('IT124', 'ThreeDoor', 'Samsung', 22000, '2022-03-25', 'Refrigerator');

INSERT INTO ITEM VALUES ('IT125', 'FourDoor', 'Samsung', 21000, '2010-06-10', 'Refrigerator');

commit;

```

```

mysql> select * from Item;
+-----+-----+-----+-----+-----+-----+
| ITEMCODE | ITEMNAME | MANUFACTURERNAME | UNITPRICE | MANUFACTURINGYEAR | ITEMCATEGORY |
+-----+-----+-----+-----+-----+-----+
| IT101 | LED32Inch | Samsung | 15000.00 | 2015-11-14 | Television |
| IT102 | GlaxyS5 | Samsung | 13000.00 | 2016-04-16 | Mobile |
| IT103 | FrontLoad | Samsung | 20000.00 | 2016-05-23 | WashingMachine |
| IT104 | DualDoor | Samsung | 12000.00 | 2015-11-20 | Refrigerator |
| IT105 | Pencils | Natraj | 2.00 | 2016-01-11 | Stationery |
| IT106 | LED32Inch | LG | 19000.00 | 2016-01-01 | Television |
| IT107 | LG G5 Sliver | LG | 11000.00 | 2015-11-20 | Mobile |
| IT108 | TopLoad | LG | 25000.00 | 2016-04-18 | WashingMachine |
| IT109 | FourDoor | LG | 18000.00 | 2016-05-18 | Refrigerator |
| IT110 | Erasers | Camlin | 5.00 | 2016-01-15 | Stationery |
| IT111 | LED32Inch | Sony | 22000.00 | 2016-03-14 | Television |
| IT112 | Sony Xperia Z5 | Sony | 9000.00 | 2015-12-14 | Mobile |
| IT113 | FullyAutomatic | Sony | 22000.00 | 2015-12-13 | WashingMachine |
| IT114 | ThreeDoorNormal | Sony | 19000.00 | 2016-06-14 | Refrigerator |
| IT115 | Pens | Faber Castell | 10.00 | 2016-01-11 | Stationery |
| IT116 | LED32Inch | Onida | 20000.00 | 2016-02-19 | Television |
| IT117 | Onida i505 | Onida | 10000.00 | 2016-04-23 | Mobile |
| IT118 | SemiAutoMatic | Onida | 11000.00 | 2015-12-13 | WashingMachine |
| IT119 | ThreeDoorLux | Onida | 18000.00 | 2016-06-19 | Refrigerator |
| IT120 | Sharpner | Apsara | 5.00 | 2016-01-21 | Stationery |
| IT121 | LED50Inch | Onida | 48000.00 | 2015-03-25 | Television |
| IT122 | ThreeDoor | Thomson | 21000.00 | 2017-05-25 | Refrigerator |
| IT123 | LED50Inch | LG | 38000.00 | 2019-07-28 | Television |
| IT124 | ThreeDoor | Samsung | 22000.00 | 2022-03-25 | Refrigerator |
| IT125 | FourDoor | Samsung | 21000.00 | 2010-06-10 | Refrigerator |
+-----+-----+-----+-----+-----+-----+
25 rows in set (0.00 sec)

```

```
CREATE TABLE CUSTOMER
```

```
(
```

```
CUSTOMERID NUMERIC PRIMARY KEY
, CUSTOMERNAME VARCHAR(200) NOT NULL
, ADDRESS VARCHAR(300)
, PHONENUMBER VARCHAR(10)
, CUSTOMERMAILID VARCHAR(20)
);
```

```
INSERT INTO CUSTOMER VALUES ('1001', 'Mario', 'Street: 1, Cross: 2, Town: 3, Pin: 1231',
'1234567890', 'Mario@xyz.com');
INSERT INTO CUSTOMER VALUES ('1002', 'Megan', 'Street: 1, Cross: 2, Town: 3, Pin: 1231',
'1234567891', 'Megan@xyz.com');
INSERT INTO CUSTOMER VALUES ('1003', 'Amy', 'Street: 1, Cross: 2, Town: 3, Pin: 1231',
'1234567892', 'Amy@xyz.com');
INSERT INTO CUSTOMER VALUES ('1004', 'Stuart', 'Street: 1, Cross: 2, Town: 3, Pin: 1231',
'1234567893', 'Stuart@xyz.com');
INSERT INTO CUSTOMER VALUES ('1005', 'Phil', 'Street: 2, Cross: 4, Town: 5, Pin: 1232',
'1234567894', 'Phil@xyz.com');
INSERT INTO CUSTOMER VALUES ('1006', 'Jacob', 'Street: 2, Cross: 4, Town: 5, Pin: 1232',
'1234567895', 'Jacob@xyz.com');
INSERT INTO CUSTOMER VALUES ('1007', 'James', 'Street: 2, Cross: 4, Town: 5, Pin: 1232',
'1234567896', 'James@xyz.com');
INSERT INTO CUSTOMER VALUES ('1008', 'Dan', 'Street: 2, Cross: 4, Town: 5, Pin: 1232',
'1234567897', 'Dan@xyz.com');
INSERT INTO CUSTOMER VALUES ('1009', 'Henry', 'Street: 12, Cross: 4, Town: 15, Pin: 1235',
'1234567898', 'Henry@xyz.com');
INSERT INTO CUSTOMER VALUES ('1010', 'Eric', 'Street: 12, Cross: 4, Town: 15, Pin: 1235',
'1234567899', 'Eric@xyz.com');
INSERT INTO CUSTOMER VALUES ('1011', 'Ken', 'Street: 12, Cross: 4, Town: 15, Pin: 1235',
'1234567900', 'Ken@xyz.com');
INSERT INTO CUSTOMER VALUES ('1012', 'Mecon', 'Street: 14, Cross: 6, Town: 16, Pin:
1236', '1234567901', 'Mecon@xyz.com');
INSERT INTO CUSTOMER VALUES ('1013', 'Merlin', 'Street: 14, Cross: 5, Town: 16, Pin: 1236',
'1234567902', 'Merlin@xyz.com');
INSERT INTO CUSTOMER VALUES ('1014', 'Morgan', 'Street: 14, Cross: 5, Town: 16, Pin:
1236', '1234567903', 'Morgan@xyz.com');
commit;
```

```
mysql> Select * from customer;
```

CUSTOMERID	CUSTOMERNAME	ADDRESS	PHONENUMBER	CUSTOMERMAILID
1001	Mario	Street: 1, Cross: 2, Town: 3, Pin: 1231	1234567890	Mario@xyz.com
1002	Megan	Street: 1, Cross: 2, Town: 3, Pin: 1231	1234567891	Megan@xyz.com
1003	Amy	Street: 1, Cross: 2, Town: 3, Pin: 1231	1234567892	Amy@xyz.com
1004	Stuart	Street: 1, Cross: 2, Town: 3, Pin: 1231	1234567893	Stuart@xyz.com
1005	Phil	Street: 2, Cross: 4, Town: 5, Pin: 1232	1234567894	Phil@xyz.com
1006	Jacob	Street: 2, Cross: 4, Town: 5, Pin: 1232	1234567895	Jacob@xyz.com
1007	James	Street: 2, Cross: 4, Town: 5, Pin: 1232	1234567896	James@xyz.com
1008	Dan	Street: 2, Cross: 4, Town: 5, Pin: 1232	1234567897	Dan@xyz.com
1009	Henry	Street: 12, Cross: 4, Town: 15, Pin: 1235	1234567898	Henry@xyz.com
1010	Eric	Street: 12, Cross: 4, Town: 15, Pin: 1235	1234567899	Eric@xyz.com
1011	Ken	Street: 12, Cross: 4, Town: 15, Pin: 1235	1234567900	Ken@xyz.com
1012	Mecon	Street: 14, Cross: 6, Town: 16, Pin: 1236	1234567901	Mecon@xyz.com
1013	Merlin	Street: 14, Cross: 5, Town: 16, Pin: 1236	1234567902	Merlin@xyz.com
1014	Morgan	Street: 14, Cross: 5, Town: 16, Pin: 1236	1234567903	Morgan@xyz.com

```
14 rows in set (0.00 sec)
```

```
CREATE TABLE ORDERMASTER
(
  ORDERID NUMERIC PRIMARY KEY
  , ORDERDATE DATE NOT NULL
  , TOTALORDERAMOUNT NUMERIC(10,2) NOT NULL
  , CUSTOMERID NUMERIC NOT NULL
  , CONSTRAINT ORDERMASTER_CHK1 CHECK(TOTALORDERAMOUNT>0)
  , CONSTRAINT ORDER_MASTER_CUST_FK1 FOREIGN KEY (CUSTOMERID) REFERENCES
  CUSTOMER(CUSTOMERID)
);

INSERT INTO ORDERMASTER VALUES ('70001', '2016-07-07', '49000', '1001');

INSERT INTO ORDERMASTER VALUES ('70002', '2016-06-27', '82000', '1006');

INSERT INTO ORDERMASTER VALUES ('70003', '2016-07-09', '200', '1005');

INSERT INTO ORDERMASTER VALUES ('70004', '2016-07-10', '46000', '1006');

INSERT INTO ORDERMASTER VALUES ('70005', '2016-06-20', '48000', '1005');

INSERT INTO ORDERMASTER VALUES ('70006', '2016-07-10', '200', '1006');

INSERT INTO ORDERMASTER VALUES ('70007', '2016-07-20', '49000', '1005');

commit;
```

```
mysql> select * from ordermaster;
```

ORDERID	ORDERDATE	TOTALORDERAMOUNT	CUSTOMERID
70001	2016-07-07	49000.00	1001
70002	2016-06-27	82000.00	1006
70003	2016-07-09	200.00	1005
70004	2016-07-10	46000.00	1006
70005	2016-06-20	48000.00	1005
70006	2016-07-10	200.00	1006
70007	2016-07-20	49000.00	1005

```
7 rows in set (0.00 sec)
```

```
CREATE TABLE ORDERTRANSACTION
```

```
(
```

```
ORDERID NUMERIC REFERENCES ORDERMASTER(ORDERID)
```

```
, ITEMCODE VARCHAR(10) REFERENCES ITEM(ITEMCODE)
```

```
, QTYORDERED NUMERIC(2) CHECK(QTYORDERED>0)
```

```
, CONSTRAINT ORDERTRANSACTION_PK PRIMARY KEY (ORDERID, ITEMCODE)
```

```
);
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70001', 'IT101', '2');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70001', 'IT114', '1');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70002', 'IT111', '2');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70002', 'IT103', '1');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70002', 'IT109', '1');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70003', 'IT115', '20');
```

```
INSERT INTO ORDERTRANSACTION      ('70004', 'IT117', '2');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70004', 'IT102', '2');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70005', 'IT121', '1');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70006', 'IT115', '20');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70007', 'IT101', '2');
```

```
INSERT INTO ORDERTRANSACTION VALUES ('70007', 'IT114', '1');
```

```
Commit;
```

```
mysql> Select * from orderTransaction;
```

ORDERID	ITEMCODE	QTYORDERED
70001	IT101	2
70001	IT114	1
70002	IT103	1
70002	IT109	1
70002	IT111	2
70003	IT115	20
70004	IT102	2
70004	IT117	2
70005	IT121	1
70006	IT115	20
70007	IT101	2
70007	IT114	1

```
12 rows in set (0.04 sec)
```

1. Display ItemCode, ItemName and ItemCategory of items whose UnitPrice is less than INR 500.

SELECT ItemCode, ItemName, ItemCategory from Item where UnitPrice<500;

```
mysql> SELECT ItemCode, ItemName, ItemCategory from Item where UnitPrice<500;
```

ItemCode	ItemName	ItemCategory
IT105	Pencils	Stationery
IT110	Erasers	Stationery
IT115	Pens	Stationery
IT120	Sharpner	Stationery

```
4 rows in set (0.00 sec)
```

2. Display ItemCode, ItemName and ItemCategory of items whose UnitPrice is in the range INR 10,000 to INR 20,000 (both inclusive).

SELECT ItemCode, ItemName, ItemCategory from Item where UnitPrice Between 10000 AND 20000;

```
mysql> SELECT ItemCode, ItemName, ItemCategory from Item where UnitPrice Between 10000 AND 20000;
```

ItemCode	ItemName	ItemCategory
IT101	LED32Inch	Television
IT102	GlaxyS5	Mobile
IT103	FrontLoad	WashingMachine
IT104	DualDoor	Refrigerator
IT106	LED32Inch	Television
IT107	LG G5 Sliver	Mobile
IT109	FourDoor	Refrigerator
IT114	ThreeDoorNormal	Refrigerator
IT116	LED32Inch	Television
IT117	Onida i505	Mobile
IT118	SemiAutoMatic	WashingMachine
IT119	ThreeDoorLux	Refrigerator

```
12 rows in set (0.00 sec)
```


3. Display ItemCode and ManufacturerName of Televisions that are costing more than INR 15,000 .

Select ItemCode , ManufacturerName from Item where ItemCategory = 'Television' and UnitPrice > 15000;

```
mysql> Select ItemCode , ManufacturerName from Item where ItemCategory = 'Television' and UnitPrice >15000;
+-----+-----+
| ItemCode | ManufacturerName |
+-----+-----+
| IT106    | LG               |
| IT111    | Sony             |
| IT116    | Onida            |
| IT121    | Onida            |
| IT123    | LG               |
+-----+-----+
5 rows in set (0.00 sec)
```

4. Display ItemName, ManufacturerName and UnitPrice of "Televisions, Mobiles and Washing Machines".

Select ItemName,ManufacturerName,UnitPrice from Item where ItemCategory IN('Television','Mobile','WashingMachine');

```
mysql> Select ItemName,ManufacturerName,UnitPrice from Item where ItemCategory IN('Television','Mobile','WashingMachine');
+-----+-----+-----+
| ItemName | ManufacturerName | UnitPrice |
+-----+-----+-----+
| LED32Inch | Samsung          | 15000.00  |
| GalaxyS5  | Samsung          | 13000.00  |
| FrontLoad | Samsung          | 20000.00  |
| LED32Inch | LG               | 19000.00  |
| LG G5 Sliver | LG              | 11000.00  |
| TopLoad   | LG               | 25000.00  |
| LED32Inch | Sony             | 22000.00  |
| Sony Xperia Z5 | Sony            | 9000.00   |
| FullyAutomatic | Sony           | 22000.00  |
| LED32Inch | Onida            | 20000.00  |
| Onida i505 | Onida            | 10000.00  |
| SemiAutoMatic | Onida           | 11000.00  |
| LED50Inch | Onida            | 48000.00  |
| LED50Inch | LG               | 38000.00  |
+-----+-----+-----+
14 rows in set (0.00 sec)
```

5. Display ItemCode, ItemName and ManufacturerName of items which were manufactured in the year 2015

Select ItemCode, ItemName, ManufacturerName from item where MANUFACTURINGYEAR Like '2015%';

```
mysql> Select ItemCode, ItemName, ManufacturerName from item where MANUFACTURINGYEAR Like '2015%';
```

ItemCode	ItemName	ManufacturerName
IT101	LED32Inch	Samsung
IT104	DualDoor	Samsung
IT107	LG G5 Sliver	LG
IT112	Sony Xperia Z5	Sony
IT113	FullyAutomatic	Sony
IT118	SemiAutoMatic	Onida
IT121	LED50Inch	Onida

```
7 rows in set, 1 warning (0.00 sec)
```

6. Display ItemCode, ItemName and ManufacturerName of Televisions which are more than 2 years old

7. Display ItemCode, ItemName, UnitPrice, UnitPrice+VAT for all "Refrigerators" (VAT to be computed as 2% of unitprice of the item).

Select ItemCode, ItemName, UnitPrice, UnitPrice+(2.0/100)*UnitPrice As VAT_UNITPRICE from item where ItemCategory = 'Refrigerator';

```
mysql> Select ItemCode, ItemName, UnitPrice, UnitPrice+(2/100)*UnitPrice As VAT_UNITPRICE from item where ItemCategory = 'Refrigerator';
```

ItemCode	ItemName	UnitPrice	VAT_UNITPRICE
IT104	DualDoor	12000.00	12240.000000
IT109	FourDoor	18000.00	18360.000000
IT114	ThreeDoorNormal	19000.00	19380.000000
IT119	ThreeDoorLux	18000.00	18360.000000
IT122	ThreeDoor	21000.00	21420.000000
IT124	ThreeDoor	22000.00	22440.000000
IT125	FourDoor	21000.00	21420.000000

```
7 rows in set (0.00 sec)
```

8. Display CustomerName and PhoneNumber of Customers whose name starts with 'J'.

Select CustomerName , PhoneNumber from customer where CustomerName Like 'J%';

```
mysql> Select CustomerName , PhoneNumber from customer where CustomerName Like 'J%';
```

CustomerName	PhoneNumber
Jacob	1234567895
James	1234567896

```
2 rows in set (0.04 sec)
```

9. Display CustomerName and Phone of Customers whose name ends with 'an'.

Select CustomerName , PhoneNumber from customer where CustomerName Like '%an';

```
mysql> Select CustomerName , PhoneNumber from customer where CustomerName Like '%an';
+-----+-----+
| CustomerName | PhoneNumber |
+-----+-----+
| Megan        | 1234567891  |
| Dan          | 1234567897  |
| Morgan       | 1234567903  |
+-----+-----+
3 rows in set (0.00 sec)
```

10. Display CustomerName and Phone of Customers whose name starts with 'M' and ends with 'n'.

Select CustomerName , PhoneNumber from customer where CustomerName Like 'M%n';

```
mysql> Select CustomerName , PhoneNumber from customer where CustomerName Like 'M%n';
+-----+-----+
| CustomerName | PhoneNumber |
+-----+-----+
| Megan        | 1234567891  |
| Mecon        | 1234567901  |
| Merlin       | 1234567902  |
| Morgan       | 1234567903  |
+-----+-----+
4 rows in set (0.00 sec)
```

11. Display CustomerName and Phone of Customers whose name contains only three letters.

Select CustomerName , PhoneNumber from customer where CustomerName Like '___';

```
mysql> Select CustomerName , PhoneNumber from customer where CustomerName Like '___';
+-----+-----+
| CustomerName | PhoneNumber |
+-----+-----+
| Amy          | 1234567892  |
| Dan          | 1234567897  |
| Ken          | 1234567900  |
+-----+-----+
3 rows in set (0.00 sec)
```

12. Display CustomerName and Phone of Customers whose name contains 'a' as the second letter.

Select CustomerName , PhoneNumber from customer where CustomerName Like

'_a%';

```
mysql> Select CustomerName , PhoneNumber from customer where CustomerName Like '_a%';
```

CustomerName	PhoneNumber
Mario	1234567890
Jacob	1234567895
James	1234567896
Dan	1234567897

```
4 rows in set (0.00 sec)
```

13. Display ItemCode, ItemName, ManufacturerName and UnitPrice of ALL items in the descending order of UnitPrice.

```
mysql> select ItemCode, ItemName, ManufacturerName,UnitPrice from Item Order By UnitPrice desc;
```

ItemCode	ItemName	ManufacturerName	UnitPrice
IT121	LED50Inch	Onida	48000.00
IT123	LED50Inch	LG	38000.00
IT108	TopLoad	LG	25000.00
IT113	FullyAutomatic	Sony	22000.00
IT124	ThreeDoor	Samsung	22000.00
IT111	LED32Inch	Sony	22000.00
IT122	ThreeDoor	Thomson	21000.00
IT125	FourDoor	Samsung	21000.00
IT103	FrontLoad	Samsung	20000.00
IT116	LED32Inch	Onida	20000.00
IT106	LED32Inch	LG	19000.00
IT114	ThreeDoorNormal	Sony	19000.00
IT109	FourDoor	LG	18000.00
IT119	ThreeDoorLux	Onida	18000.00
IT101	LED32Inch	Samsung	15000.00
IT102	GalaxyS5	Samsung	13000.00
IT104	DualDoor	Samsung	12000.00
IT118	SemiAutoMatic	Onida	11000.00
IT107	LG G5 Sliver	LG	11000.00
IT117	Onida i505	Onida	10000.00
IT112	Sony Xperia Z5	Sony	9000.00
IT115	Pens	Faber Castell	10.00
IT110	Erasers	Camlin	5.00
IT120	Sharpner	Apsara	5.00
IT105	Pencils	Natraj	2.00

```
25 rows in set (0.00 sec)
```

14. Display CustomerName and Address of customers in the alphabetical order (A to Z) of CustomerName. select CustomerName, Address from customer order by customername;

```
mysql> select CustomerName, Address from customer order by customername;
```

CustomerName	Address
Amy	Street: 1, Cross: 2, Town: 3, Pin: 1231
Dan	Street: 2, Cross: 4, Town: 5, Pin: 1232
Eric	Street: 12, Cross: 4, Town: 15, Pin: 1235
Henry	Street: 12, Cross: 4, Town: 15, Pin: 1235
Jacob	Street: 2, Cross: 4, Town: 5, Pin: 1232
James	Street: 2, Cross: 4, Town: 5, Pin: 1232
Ken	Street: 12, Cross: 4, Town: 15, Pin: 1235
Mario	Street: 1, Cross: 2, Town: 3, Pin: 1231
Mecon	Street: 14, Cross: 6, Town: 16, Pin: 1236
Megan	Street: 1, Cross: 2, Town: 3, Pin: 1231
Merlin	Street: 14, Cross: 5, Town: 16, Pin: 1236
Morgan	Street: 14, Cross: 5, Town: 16, Pin: 1236
Phil	Street: 2, Cross: 4, Town: 5, Pin: 1232
Stuart	Street: 1, Cross: 2, Town: 3, Pin: 1231

14 rows in set (0.00 sec)

15. Display ItemCode, ItemName, ManufacturerName and UnitPrice of all items in the ascending order of UnitPrice and in the descending order of ManufacturerName (if UnitPrice is same).

Select ItemCode, ItemName, ManufacturerName ,UnitPrice from Item Order By UnitPrice ASC ,ManufacturerName DESC;

```
mysql> select ItemCode, ItemName, ManufacturerName ,UnitPrice from Item Order By UnitPrice ASC ,ManufacturerName DESC
```

ItemCode	ItemName	ManufacturerName	UnitPrice
IT105	Pencils	Natraj	2.00
IT110	Erasers	Camlin	5.00
IT120	Sharpner	Apsara	5.00
IT115	Pens	Faber Castell	10.00
IT112	Sony Xperia Z5	Sony	9000.00
IT117	Onida i505	Onida	10000.00
IT118	SemiAutoMatic	Onida	11000.00
IT107	LG G5 Sliver	LG	11000.00
IT104	DualDoor	Samsung	12000.00
IT102	GlaxyS5	Samsung	13000.00
IT101	LED32Inch	Samsung	15000.00
IT119	ThreeDoorLux	Onida	18000.00
IT109	FourDoor	LG	18000.00
IT114	ThreeDoorNormal	Sony	19000.00
IT106	LED32Inch	LG	19000.00
IT103	FrontLoad	Samsung	20000.00
IT116	LED32Inch	Onida	20000.00
IT122	ThreeDoor	Thomson	21000.00
IT125	FourDoor	Samsung	21000.00
IT111	LED32Inch	Sony	22000.00
IT113	FullyAutomatic	Sony	22000.00
IT124	ThreeDoor	Samsung	22000.00
IT108	TopLoad	LG	25000.00
IT123	LED50Inch	LG	38000.00
IT121	LED50Inch	Onida	48000.00

```
25 rows in set (0.00 sec)
```

CREATE TABLE DEPARTMENT

(

DEPARTMENTCODE VARCHAR(10)

, DEPARTMENTNAME VARCHAR(50)

, CONSTRAINT DEPARTMENT_Pkey PRIMARY KEY(DEPARTMENTCODE)

);

INSERT INTO DEPARTMENT VALUES ('LKM', 'Learning and Knowledge Management');

INSERT INTO DEPARTMENT VALUES ('JavaCap', 'Java Capability');

INSERT INTO DEPARTMENT VALUES ('.NETCap', 'Dotnet Capability');

commit;

```
mysql> SELECT * FROM DEPARTMENT;
```

DEPARTMENTCODE	DEPARTMENTNAME
.NETCap	Dotnet Capability
JavaCap	Java Capability
LKM	Learning and Knowledge Management

```
3 rows in set (0.00 sec)
```

```
CREATE TABLE PROJECT
(
PROJECTID VARCHAR(10)
, PROJECTNAME VARCHAR(50)

, CONSTRAINT PROJECT_PK PRIMARY KEY(PROJECTID)
);
```

```
INSERT INTO PROJECT VALUES ('P1', 'Retail');
INSERT INTO PROJECT VALUES ('P2', 'Insurance');
INSERT INTO PROJECT VALUES ('P3', 'Resources');
INSERT INTO PROJECT VALUES ('P4', 'Banking');
INSERT INTO PROJECT VALUES ('P5', 'Internal
Project'); commit;
```

```
mysql> SELECT * FROM PROJECT;
+-----+-----+
| PROJECTID | PROJECTNAME |
+-----+-----+
| P1        | Retail      |
| P2        | Insurance   |
| P3        | Resources   |
| P4        | Banking     |
| P5        | Internal Project |
+-----+-----+
5 rows in set (0.02 sec)
```

```
CREATE TABLE EMPLOYEE(

EMPLOYEEENUMBER NUMERIC(10) PRIMARY KEY,

EMPLOYEEENAME VARCHAR(50),

DATEOFBIRTH DATE,

DATEOFJOINING DATE,
```

DESIGNATION VARCHAR(5) CHECK (DESIGNATION ='CEO' or DESIGNATION ='MD' or
DESIGNATION ='SM' or DESIGNATION ='M' or DESIGNATION ='TL' or DESIGNATION
='SSE' or DESIGNATION ='SE'),

SALARY NUMERIC(10,2) CHECK(SALARY>0 or SALARY <> null),

ManagerEmployeeNumber NUMERIC(10),

DEPARTMENTCODE VARCHAR(10) REFERENCES DEPARTMENT(DEPARTMENTCODE)

);

INSERT INTO EMPLOYEE VALUES (7001, 'Cynthia', '1975-05-12', '1997-02-14', 'CEO',
800000.00, 7001, NULL);

INSERT INTO EMPLOYEE VALUES (7002, 'Mario', '1976-02-14', '1998-04-16', 'MD',
500000.00, 7001, 'JavaCap');

INSERT INTO EMPLOYEE VALUES (7003, 'Jacob', '1976-05-16', '1998-05-16', 'MD',
400000.00, 7001, '.NETCap');

INSERT INTO EMPLOYEE VALUES (7004, 'Lucy', '1978-05-15', '2000-07-15', 'MD',
420000.00, 7001, 'LKM');

INSERT INTO EMPLOYEE VALUES (7005, 'Amy', '1978-09-16', '2000-11-16', 'SM',
240000.00, 7002, 'JavaCap');

INSERT INTO EMPLOYEE VALUES (7006, 'Frank', '1978-09-17', '2000-09-19', 'SM',
220000.00, '7003', '.NETCap');

INSERT INTO EMPLOYEE VALUES (7007, 'Phil', '1974-12-11', '2000-11-12', 'SM',
220000.00, '7004', 'LKM');

INSERT INTO EMPLOYEE VALUES (7008, 'Arnold', '1984-03-13', '2000-04-01', 'TL',
80000.00, '7005', 'JavaCap');

INSERT INTO EMPLOYEE VALUES (7009, 'Jack', '1984-09-23', '2000-06-23', 'TL', 88000.00,
'7006', '.NETCap');

INSERT INTO EMPLOYEE VALUES (7010, 'Justin', '1984-11-07', '2000-02-09', 'TL',
86000.00, '7007', 'LKM');

INSERT INTO EMPLOYEE VALUES (7011, 'Megan', '1984-07-21', '2002-09-19', 'TL',
87000.00, '7007', 'LKM');

INSERT INTO EMPLOYEE VALUES (7012, 'Stuart', '1980-05-23', '2016-05-22', 'SSE',
35000.00, '7008', 'JavaCap');

INSERT INTO EMPLOYEE VALUES (7013, 'Clarke', '1994-02-24', '2016-05-22', 'SSE',
32000.00, '7008', 'JavaCap');

INSERT INTO EMPLOYEE VALUES (7014, 'Darwin', '1992-05-03', '2016-05-22', 'SE',
'30000.00', '7009', '.NETCap');


```

INSERT INTO EMPLOYEE VALUES (7015, 'Chelsea' , '1994-01-19' , '2016-05-22' , 'SSE' ,
38000.00 , '7010' , 'LKM');
INSERT INTO EMPLOYEE VALUES (7016, 'Dan' , '1991-05-27' , '2016-07-07' , 'SE' , 30000.00 ,
'7009' , '.NETCap');
INSERT INTO EMPLOYEE VALUES (7017, 'Jimmy' , '1993-08-11' , '2016-07-07' , 'SE' ,
32000.00 , '7010' , 'LKM');
INSERT INTO EMPLOYEE VALUES (7018, 'James' , '1993-12-19' , '2016-07-07' , 'SE' ,
35000.00 , NULL , '.NETCap');
INSERT INTO EMPLOYEE VALUES (7019, 'Joseph' , '1992-12-13' , '2016-07-07' , 'SE' ,
30000.00 , NULL , '.NETCap');
commit;

```

```
mysql> select * from employee;
```

EMPLOYEENUMBER	EMPLOYEENAME	DATEOFBIRTH	DATEOFJOINING	DESIGNATION	SALARY	ManagerEmployeeNumber	DEPARTMENTCODE
7001	Cynthia	1975-05-12	1997-02-14	CEO	800000.00	7001	NULL
7002	Mario	1976-02-14	1998-04-16	MD	500000.00	7001	JavaCap
7003	Jacob	1976-05-16	1998-05-16	MD	400000.00	7001	.NETCap
7004	Lucy	1978-05-15	2000-07-15	MD	420000.00	7001	LKM
7005	Amy	1978-09-16	2000-11-16	SM	240000.00	7002	JavaCap
7006	Frank	1978-09-17	2000-09-19	SM	220000.00	7003	.NETCap
7007	Phil	1974-12-11	2000-11-12	SM	220000.00	7004	LKM
7008	Arnold	1984-03-13	2000-04-01	TL	80000.00	7005	JavaCap
7009	Jack	1984-09-23	2000-06-23	TL	88000.00	7006	.NETCap
7010	Justin	1984-11-07	2000-02-09	TL	86000.00	7007	LKM
7011	Megan	1984-07-21	2002-09-19	TL	87000.00	7007	LKM
7012	Stuart	1980-05-23	2016-05-22	SSE	35000.00	7008	JavaCap
7013	Clarke	1994-02-24	2016-05-22	SSE	32000.00	7008	JavaCap
7014	Darwin	1992-05-03	2016-05-22	SE	30000.00	7009	.NETCap
7015	Chelsea	1994-01-19	2016-05-22	SSE	38000.00	7010	LKM
7016	Dan	1991-05-27	2016-07-07	SE	30000.00	7009	.NETCap
7017	Jimmy	1993-08-11	2016-07-07	SE	32000.00	7010	LKM
7018	James	1993-12-19	2016-07-07	SE	35000.00	NULL	.NETCap
7019	Joseph	1992-12-13	2016-07-07	SE	30000.00	NULL	.NETCap

19 rows in set (0.00 sec)

```

CREATE TABLE EMPLOYEEPROJECTS
(
EMPLOYEENUMBER NUMERIC(10) NOT NULL
, PROJECTID VARCHAR(10) NOT NULL
, STARTDATE DATE
, ENDDATE DATE
, PRIMARY KEY (EMPLOYEENUMBER, PROJECTID)

```

);

```
INSERT INTO EMPLOYEEPROJECTS VALUES (7005, 'P1', '2014-07-01', null);
INSERT INTO EMPLOYEEPROJECTS VALUES (7006, 'P1', '2016-06-01', null);
INSERT INTO EMPLOYEEPROJECTS VALUES (7004, 'P2', '2014-07-16', '2015-05-11');
INSERT INTO EMPLOYEEPROJECTS VALUES (7013, 'P2', '2014-07-01', '2014-11-11');
INSERT INTO EMPLOYEEPROJECTS VALUES (7012, 'P2', '2016-06-01', '2015-02-28');
INSERT INTO EMPLOYEEPROJECTS VALUES (7007, 'P3', '2015-05-11', null);
INSERT INTO EMPLOYEEPROJECTS VALUES (7014, 'P3', '2014-11-11', null);
INSERT INTO EMPLOYEEPROJECTS VALUES (7013, 'P3', '2015-02-28', null);
INSERT INTO EMPLOYEEPROJECTS VALUES (7016, 'P2', '2014-07-16', null);
INSERT INTO EMPLOYEEPROJECTS VALUES (7012, 'P1', '2015-03-01', null);

Commit;
```

```
mysql> select * from employeeprojects;
```

EMPLOYEENUMBER	PROJECTID	STARTDATE	ENDDATE
7004	P2	2014-07-16	2015-05-11
7005	P1	2014-07-01	NULL
7006	P1	2016-06-01	NULL
7007	P3	2015-05-11	NULL
7012	P1	2015-03-01	NULL
7012	P2	2016-06-01	2015-02-28
7013	P2	2014-07-01	2014-11-11
7013	P3	2015-02-28	NULL
7014	P3	2014-11-11	NULL
7016	P2	2014-07-16	NULL

```
10 rows in set (0.00 sec)
```

1.Display EmployeeName, Designation and Salary for ALL the employees

```
select EMPLOYEENAME, DESIGNATION, SALARY FROM EMPLOYEE;
```

```
mysql> select EMPLOYEEName, DESIGNATION, SALARY FROM EMPLOYEE;
+-----+-----+-----+
| EMPLOYEEName | DESIGNATION | SALARY |
+-----+-----+-----+
| Cynthia      | CEO         | 800000.00 |
| Mario        | MD          | 500000.00 |
| Jacob        | MD          | 400000.00 |
| Lucy         | MD          | 420000.00 |
| Amy          | SM          | 240000.00 |
| Frank        | SM          | 220000.00 |
| Phil         | SM          | 220000.00 |
| Arnold       | TL          | 80000.00  |
| Jack         | TL          | 88000.00  |
| Justin       | TL          | 86000.00  |
| Megan        | TL          | 87000.00  |
| Stuart       | SSE         | 35000.00  |
| Clarke       | SSE         | 32000.00  |
| Darwin       | SE          | 30000.00  |
| Chelsea      | SSE         | 38000.00  |
| Dan          | SE          | 30000.00  |
| Jimmy        | SE          | 32000.00  |
| James        | SE          | 35000.00  |
| Joseph       | SE          | 30000.00  |
+-----+-----+-----+
19 rows in set (0.00 sec)
```

2.Display different designations in the company (Each designation should be displayed only once)

Select DISTINCT DESIGNATION FROM EMPLOYEE;

```
mysql> Select DISTINCT DESIGNATION FROM EMPLOYEE;
+-----+
| DESIGNATION |
+-----+
| CEO         |
| MD          |
| SM          |
| TL          |
| SSE         |
| SE          |
+-----+
6 rows in set (0.00 sec)
```

3.Display EmployeeName and Salary of SSEs whose salary is more than 35000

Select EmployeeName, Salary from employee where salary >35000 and Designation ='SSE';

```
mysql> Select EmployeeName, Salary from employee where salary >35000 and Designation ='SSE';
+-----+-----+
| EmployeeName | Salary |
+-----+-----+
| Chelsea      | 38000.00 |
+-----+-----+
1 row in set (0.00 sec)
```

4.Display EmployeeName, Designation and Salary of SM, SSE and SE

Select EmployeeName, Designation , Salary from employee where Designation IN('SM','SSE' ,'SE');

```
mysql> Select EmployeeName, Designation , Salary from employee where Designation IN( 'SM','SSE' ,'SE');
+-----+-----+-----+
| EmployeeName | Designation | Salary |
+-----+-----+-----+
| Amy          | SM          | 240000.00 |
| Frank        | SM          | 220000.00 |
| Phil         | SM          | 220000.00 |
| Stuart       | SSE         | 35000.00  |
| Clarke       | SSE         | 32000.00  |
| Darwin       | SE          | 30000.00  |
| Chelsea      | SSE         | 38000.00  |
| Dan          | SE          | 30000.00  |
| Jimmy        | SE          | 32000.00  |
| James        | SE          | 35000.00  |
| Joseph       | SE          | 30000.00  |
+-----+-----+-----+
11 rows in set (0.00 sec)
```

5.Display EmployeeName and DateOfJoining of employees who have joined in the year 2000

Select EmployeeName, DateofJoining from employee where DateofJoining Like '2000%';

```
mysql> Select EmployeeName, DateofJoining from employee where DateofJoining Like '2000%';
+-----+-----+
| EmployeeName | DateofJoining |
+-----+-----+
| Lucy         | 2000-07-15    |
| Amy          | 2000-11-16    |
| Frank        | 2000-09-19    |
| Phil         | 2000-11-12    |
| Arnold       | 2000-04-01    |
| Jack         | 2000-06-23    |
| Justin       | 2000-02-09    |
+-----+-----+
7 rows in set, 1 warning (0.00 sec)
```

6.Display EmployeeName, DateofBirth and Age of ALL employees (Age is not a database column. Needs to be computed. In Oracle, SYSDATE contains the current date)

Select employeename, dateofBirth, year(sysdate())-year(dateofbirth) as age from employee;

```
mysql> Select employeeName, dateOfBirth, year(sysdate())-year(dateOfBirth) as age from employee;
```

employeeName	dateOfBirth	age
Cynthya	1975-05-12	47
Mario	1976-02-14	46
Jacob	1976-05-16	46
Lucy	1978-05-15	44
Amy	1978-09-16	44
Frank	1978-09-17	44
Phil	1974-12-11	48
Arnold	1984-03-13	38
Jack	1984-09-23	38
Justin	1984-11-07	38
Megan	1984-07-21	38
Stuart	1980-05-23	42
Clarke	1994-02-24	28
Darwin	1992-05-03	30
Chelsea	1994-01-19	28
Dan	1991-05-27	31
Jimmy	1993-08-11	29
James	1993-12-19	29
Joseph	1992-12-13	30

```
19 rows in set (0.04 sec)
```

7.Display EmployeeName and Salary of employees whose salary is in the range INR 50,000 to INR 100,000

Select EmployeeName, Salary from employee where salary Between 50000 and 100000;

```
mysql> Select EmployeeName, Salary from employee where salary Between 50000 and 100000;
```

EmployeeName	Salary
Arnold	80000.00
Jack	88000.00
Justin	86000.00
Megan	87000.00

```
4 rows in set (0.00 sec)
```

8.Display EmployeeName of employees whose name starts with 'J'

Select EmployeeName from Employee where EmployeeName Like 'J%';

```
mysql> Select EmployeeName from Employee where EmployeeName Like 'J%';
+-----+
| EmployeeName |
+-----+
| Jacob        |
| Jack         |
| Justin       |
| Jimmy        |
| James        |
| Joseph       |
+-----+
6 rows in set (0.00 sec)
```

9.Display EmployeeName of employees whose name ends with 'k'

Select EmployeeName from Employee where EmployeeName Like '%k';

```
mysql> Select EmployeeName from Employee where EmployeeName Like '%k';
+-----+
| EmployeeName |
+-----+
| Frank        |
| Jack         |
+-----+
2 rows in set (0.00 sec)
```

10.Display EmployeeName of employees whose names contains 'a' as the second letter

Select EmployeeName from Employee where EmployeeName Like '_a%';

```
mysql> Select EmployeeName from Employee where EmployeeName Like '_a%';
+-----+
| EmployeeName |
+-----+
| Mario        |
| Jacob        |
| Jack         |
| Darwin       |
| Dan          |
| James        |
+-----+
6 rows in set (0.00 sec)
```

11.Display EmployeeName of employees whose names contains only three letters

Select EmployeeName from Employee where EmployeeName Like '___';


```
mysql> Select EmployeeName from Employee where EmployeeName Like '____';
+-----+
| EmployeeName |
+-----+
| Amy          |
| Dan          |
+-----+
2 rows in set (0.00 sec)
```

12.Display EmployeeName and Designation of MDs whose name starts with 'M'

Select EmployeeName, Designation from employee where Designation= 'MD' and EmployeeName Like 'M%';

```
mysql> Select EmployeeName, Designation from employee where Designation= 'MD' and EmployeeName Like 'M%';
+-----+-----+
| EmployeeName | Designation |
+-----+-----+
| Mario        | MD          |
+-----+-----+
1 row in set (0.00 sec)
```

13.Display EmployeeName and DateOfJoining of employees who have joined in the month of 'MAY'

Select EmployeeName, DateofJoining from employee where DateofJoining Like '%05%';

```
mysql> Select EmployeeName, DateofJoining from employee where DateofJoining Like '%05%';
+-----+-----+
| EmployeeName | DateofJoining |
+-----+-----+
| Jacob        | 1998-05-16    |
| Stuart       | 2016-05-22    |
| Clarke       | 2016-05-22    |
| Darwin       | 2016-05-22    |
| Chelsea      | 2016-05-22    |
+-----+-----+
5 rows in set, 1 warning (0.00 sec)
```

1.Display EmployeeName and Salary of ALL employees in the alphabetical order ('A' to 'z') of EmployeeName select EmployeeName, Salary from employee order by EmployeeName;

```
mysql> select EmployeeName, Salary from employee order by EmployeeName;
```

EmployeeName	Salary
Amy	240000.00
Arnold	80000.00
Chelsea	38000.00
Clarke	32000.00
Cynthia	800000.00
Dan	30000.00
Darwin	30000.00
Frank	220000.00
Jack	88000.00
Jacob	400000.00
James	35000.00
Jimmy	32000.00
Joseph	30000.00
Justin	86000.00
Lucy	420000.00
Mario	500000.00
Megan	87000.00
Phil	220000.00
Stuart	35000.00

```
19 rows in set (0.00 sec)
```

2.Display EmployeeName and DateOfBirth of ALL employees in the order of eldest to youngest

```
SELECT employeeName, DATEOFBIRTH FROM EMPLOYEE ORDER BY DATEOFBIRTH DESC;
```

```
mysql> SELECT  employeeName, DATEOFBIRTH FROM EMPLOYEE ORDER BY DATEOFBIRTH DESC;
```

employeeName	DATEOFBIRTH
Clarke	1994-02-24
Chelsea	1994-01-19
James	1993-12-19
Jimmy	1993-08-11
Joseph	1992-12-13
Darwin	1992-05-03
Dan	1991-05-27
Justin	1984-11-07
Jack	1984-09-23
Megan	1984-07-21
Arnold	1984-03-13
Stuart	1980-05-23
Frank	1978-09-17
Amy	1978-09-16
Lucy	1978-05-15
Jacob	1976-05-16
Mario	1976-02-14
Cynthya	1975-05-12
Phil	1974-12-11

```
19 rows in set (0.00 sec)
```

3.Display EmployeeName and Salary of ALL employees in the decreasing order of Salary

Select EmployeeName, Salary from Employee ORDER BY Salary DESC;

```
mysql> Select EmployeeName, Salary from Employee ORDER BY Salary DESC;
```

EmployeeName	Salary
Cynthia	800000.00
Mario	500000.00
Lucy	420000.00
Jacob	400000.00
Amy	240000.00
Frank	220000.00
Phil	220000.00
Jack	88000.00
Megan	87000.00
Justin	86000.00
Arnold	80000.00
Chelsea	38000.00
Stuart	35000.00
James	35000.00
Clarke	32000.00
Jimmy	32000.00
Darwin	30000.00
Dan	30000.00
Joseph	30000.00

```
19 rows in set (0.00 sec)
```

4.Display EmployeeName and Salary of ALL employees in the decreasing order of Salary and in the alphabetical order of ('A' to 'z') EmployeeName if the salary is same

```
mysql> Select EmployeeName, Salary from Employee ORDER BY Salary DESC, EmployeeName ASC;
```

EmployeeName	Salary
Cynthia	800000.00
Mario	500000.00
Lucy	420000.00
Jacob	400000.00
Amy	240000.00
Frank	220000.00
Phil	220000.00
Jack	88000.00
Megan	87000.00
Justin	86000.00
Arnold	80000.00
Chelsea	38000.00
James	35000.00
Stuart	35000.00
Clarke	32000.00
Jimmy	32000.00
Dan	30000.00
Darwin	30000.00
Joseph	30000.00

```
19 rows in set (0.00 sec)
```

5.Display EmployeeName,Designation and Salary of TLs in the decreasing order of Salary

Select EmployeeName ,Designation, Salary from employee where Designation = 'TL'
ORDER BY Salary desc;

```
mysql> Select EmployeeName ,Designation, Salary from employee where Designation = 'TL' ORDER BY Salary desc;
```

EmployeeName	Designation	Salary
Jack	TL	88000.00
Megan	TL	87000.00
Justin	TL	86000.00
Arnold	TL	80000.00

```
4 rows in set (0.00 sec)
```

1.Increase the salary of ALL employees by 5%. Save the changes done to the database

table Update employee Set salary = salary + (5/100)*salary; select * from employee;

```
mysql> Update employee Set salary = salary + (5/100)*salary;
Query OK, 19 rows affected (0.04 sec)
Rows matched: 19 Changed: 19 Warnings: 0
```

```
mysql> select * from employee;
```

EMPLOYEEID	EMPLOYEE_NAME	DATE_OF_BIRTH	DATE_OF_JOINING	DESIGNATION	SALARY	ManagerEmployeeNumber	DEPARTMENTCODE
7001	Cynthia	1975-05-12	1997-02-14	CEO	840000.00	7001	NULL
7002	Mario	1976-02-14	1998-04-16	MD	525000.00	7001	JavaCap
7003	Jacob	1976-05-16	1998-05-16	MD	420000.00	7001	.NETCap
7004	Lucy	1978-05-15	2000-07-15	MD	441000.00	7001	LKM
7005	Amy	1978-09-16	2000-11-16	SM	252000.00	7002	JavaCap
7006	Frank	1978-09-17	2000-09-19	SM	231000.00	7003	.NETCap
7007	Phil	1974-12-11	2000-11-12	SM	231000.00	7004	LKM
7008	Arnold	1984-03-13	2000-04-01	TL	84000.00	7005	JavaCap
7009	Jack	1984-09-23	2000-06-23	TL	92400.00	7006	.NETCap
7010	Justin	1984-11-07	2000-02-09	TL	90300.00	7007	LKM
7011	Megan	1984-07-21	2002-09-19	TL	91350.00	7007	LKM
7012	Stuart	1980-05-23	2016-05-22	SSE	36750.00	7008	JavaCap
7013	Clarke	1994-02-24	2016-05-22	SSE	33600.00	7008	JavaCap
7014	Darwin	1992-05-03	2016-05-22	SE	31500.00	7009	.NETCap
7015	Chelsea	1994-01-19	2016-05-22	SSE	39900.00	7010	LKM
7016	Dan	1991-05-27	2016-07-07	SE	31500.00	7009	.NETCap
7017	Jimmy	1993-08-11	2016-07-07	SE	33600.00	7010	LKM
7018	James	1993-12-19	2016-07-07	SE	36750.00	NULL	.NETCap
7019	Joseph	1992-12-13	2016-07-07	SE	31500.00	NULL	.NETCap

```
19 rows in set (0.00 sec)
```

2.Increase the salary of SSEs by 5% in addition to increase done in the previous statement.

Save the changes done to the database table

Update Employee set Salary = Salary+ (5/100)*Salary where Designation = 'SSE';

```
mysql> Update Employee set Salary = Salary+ (5/100)*Salary where Designation = 'SSE';
Query OK, 3 rows affected (0.04 sec)
Rows matched: 3 Changed: 3 Warnings: 0
```

```
mysql> Select * from employee;
```

EMPLOYEEID	EMPLOYEE_NAME	DATE_OF_BIRTH	DATE_OF_JOINING	DESIGNATION	SALARY	ManagerEmployeeNumber	DEPARTMENTCODE
7001	Cynthia	1975-05-12	1997-02-14	CEO	840000.00	7001	NULL
7002	Mario	1976-02-14	1998-04-16	MD	525000.00	7001	JavaCap
7003	Jacob	1976-05-16	1998-05-16	MD	420000.00	7001	.NETCap
7004	Lucy	1978-05-15	2000-07-15	MD	441000.00	7001	LKM
7005	Amy	1978-09-16	2000-11-16	SM	252000.00	7002	JavaCap
7006	Frank	1978-09-17	2000-09-19	SM	231000.00	7003	.NETCap
7007	Phil	1974-12-11	2000-11-12	SM	231000.00	7004	LKM
7008	Arnold	1984-03-13	2000-04-01	TL	84000.00	7005	JavaCap
7009	Jack	1984-09-23	2000-06-23	TL	92400.00	7006	.NETCap
7010	Justin	1984-11-07	2000-02-09	TL	90300.00	7007	LKM
7011	Megan	1984-07-21	2002-09-19	TL	91350.00	7007	LKM
7012	Stuart	1980-05-23	2016-05-22	SSE	38587.50	7008	JavaCap
7013	Clarke	1994-02-24	2016-05-22	SSE	35280.00	7008	JavaCap
7014	Darwin	1992-05-03	2016-05-22	SE	31500.00	7009	.NETCap
7015	Chelsea	1994-01-19	2016-05-22	SSE	41895.00	7010	LKM
7016	Dan	1991-05-27	2016-07-07	SE	31500.00	7009	.NETCap
7017	Jimmy	1993-08-11	2016-07-07	SE	33600.00	7010	LKM
7018	James	1993-12-19	2016-07-07	SE	36750.00	NULL	.NETCap
7019	Joseph	1992-12-13	2016-07-07	SE	31500.00	NULL	.NETCap

```
19 rows in set (0.00 sec)
```

3.Delete ALL rows from “EmployeeProject” table. Undo the changes done to the database table

Set autocommit =0;

Delete from EmployeeProjects;

ROLLBACK;


```
mysql> Set autocommit =0;
Query OK, 0 rows affected (0.00 sec)

mysql> Delete from EmployeeProjects;
Query OK, 10 rows affected (0.00 sec)

mysql> ROLLBACK;
Query OK, 0 rows affected (0.04 sec)

mysql> select * from EmployeeProjects;
+-----+-----+-----+-----+
| EMPLOYEENUMBER | PROJECTID | STARTDATE | ENDDATE |
+-----+-----+-----+-----+
| 7004 | P2 | 2014-07-16 | 2015-05-11 |
| 7005 | P1 | 2014-07-01 | NULL |
| 7006 | P1 | 2016-06-01 | NULL |
| 7007 | P3 | 2015-05-11 | NULL |
| 7012 | P1 | 2015-03-01 | NULL |
| 7012 | P2 | 2016-06-01 | 2015-02-28 |
| 7013 | P2 | 2014-07-01 | 2014-11-11 |
| 7013 | P3 | 2015-02-28 | NULL |
| 7014 | P3 | 2014-11-11 | NULL |
| 7016 | P2 | 2014-07-16 | NULL |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>
```

4.Delete rows from "EmployeeProject" table if the employee is working for project 'P1'.

Undo the changes done to the database table

Set autocommit =0;

Delete from EmployeeProjects where ProjectId = 'P1';

ROLLBACK;

```
mysql> Set autocommit =0;
Query OK, 0 rows affected (0.00 sec)

mysql> Delete from EmployeeProjects where ProjectId = 'P1';
Query OK, 3 rows affected (0.00 sec)

mysql> ROLLBACK;
Query OK, 0 rows affected (0.04 sec)

mysql> SELECT* FROM EMPLOYEEPROJECTS;
```

EMPLOYEENUMBER	PROJECTID	STARTDATE	ENDDATE
7004	P2	2014-07-16	2015-05-11
7005	P1	2014-07-01	NULL
7006	P1	2016-06-01	NULL
7007	P3	2015-05-11	NULL
7012	P1	2015-03-01	NULL
7012	P2	2016-06-01	2015-02-28
7013	P2	2014-07-01	2014-11-11
7013	P3	2015-02-28	NULL
7014	P3	2014-11-11	NULL
7016	P2	2014-07-16	NULL

```
10 rows in set (0.00 sec)
```

5.Delete ALL rows from "Department" table.

Delete from Department;

```
mysql> Delete from Department;
Query OK, 3 rows affected (0.04 sec)

mysql> select * from Department;
Empty set (0.00 sec)
```