1)

```
create database shop;

use shop;


create table needs(item_no int auto_increment primary key,name
varchar(20),price int)auto_increment=1011;

alter table needs change price total_sales int;

insert into needs(name, price)
values("Shampoo",30),("Soap",90),("Rawa",45),("Wheat",40),("Popc
orn",80),("Maggie",60),("French Fries",120);

insert into needs(name, total_sales)
values("Shampoo",20),("Wheat",180),("Maggie",100);


select count(*) as total_orders from needs;

select sum(total_sales) as Total_order_price from needs;

select avg(total_sales) as Average_sales from needs;

select name as product_name, sum(total_sales) as total_sales from
needs group by name;

select min(total_sales) as min_order_price, max(total_sales) as
max_order_price from needs;

select name as product_name, sum(total_sales) as total_sales from
needs group by name order by total_sales;


select * from needs;
```

total_orders
10

Total_order_price
765

Average_sales
76.5000

product_name	total_sales
Shampoo	50
Soap	90
Rawa	45
Wheat	220
Popcorn	80
Maggie	160
French Fries	120

min_order_price	max_order_price
20	180

product_name	total_sales
Rawa	45
Shampoo	50
Popcorn	80
Soap	90
French Fries	120
Maggie	160
Wheat	220

2)

create database companyDB;

use companyDB;

desc employees;

create table employees(id int auto_increment primary key, name varchar(30) not null, salary int default 30000);

alter table employees modify email varchar(30) unique key;

```sql
insert into employees(name, email, salary)
values("Sachin","tendulkar@yahoo.com",45000),("Maari","maari@hotmail.com",25000);

insert into employees(name, email)
values("Danosh","danosh@gmail.com"),("Keerthi","keerthi@gmail.com"),("Rajan","rajan@gmail.com");

insert into employees(name, email)
values("Karan","tendulkar@yahoo.com");


drop table employees;

create table employees(id int auto_increment primary key, name varchar(30) not null, salary int default 30000);

alter table employees add column email varchar(30) unique key;

alter table employees modify salary int check (salary>0);


insert into employees (name,salary) values ("Karan",-20);


select * from employees;
```

Error Code: 1062. Duplicate entry 'tendulkar@yahoo.com' for key 'employees.email'

Error Code: 3819. Check constraint 'employees_chk_1' is violated.

3)

create table products(id int auto_increment primary key, name varchar(20) not null, price int);

alter table products add column stock int;

alter table products change price unit_price int;

insert into products(name, unit_price, stock) values ("i7 processor",50000,211),("RTX 5070",120000,43),("Samsung OLED",100000,100),("Samsung RAM",50000,30),("ASUS ROG",170000,75);

update products set stock = 240 where id = 1;

delete from products where id=5;

select * from products;

	id	name	unit_price	stock
▶	1	i7 processor	50000	240
	2	RTX 5070	120000	43
	3	Samsung OLED	100000	100
	4	Samsung RAM	50000	30
*	NULL	NULL	NULL	NULL