create table info(  
name1 varchar2(20),  
surname varchar2(20),  
age number(3),  
address varchar2(50),  
date\_of\_birth date)  
  
select\*from personal\_info;  
  
drop table info;  
  
create table personal\_info(  
name1 varchar2(20),  
surname varchar2(20),  
age number(3),  
address varchar2(50),  
mobile\_number number(15),  
email varchar2(50),  
date\_of\_birth date)  
  
insert into personal\_info values('Mehdi', 'Salmanov', 23, 'Nizami 86', 0772456673, '[mehdisal27@gmail.com](mailto:mehdisal27@gmail.com)', to\_date('12.02.1999','dd.mm.yyyy'));  
insert into personal\_info values('Aylin', 'Memmedli', 27, 'Abbas Sehhet 35', 0517234591, '[aylnm22@gmail.com](mailto:aylnm22@gmail.com)', to\_date('12.03.1995','dd.mm.yyyy'));  
insert into personal\_info values('Nazim', 'Qubadli', 32, 'Sherifzade 125',0554840123,'[nazmqbad20@gmail.com](mailto:nazmqbad20@gmail.com)', to\_date('15.02.1990','dd.mm.yyyy'));  
insert into personal\_info values('Ayten', 'Seferli', 20, '20 YanvyrB9', 0557654321, '[sefay26@mail.ru](mailto:sefay26@mail.ru)', to\_date('22.02.2002','dd.mm.yyyy'));  
insert into personal\_info values('Rauf', 'Suleymanli', 19,  'Iceriseher',0553829957, '[faufsul288@mail.ru](mailto:faufsul288@mail.ru)', to\_date('19.05.2003','dd.mm.yyyy'));  
insert into personal\_info values('Nezrin', 'Ehmedova', 45, 'Yasamal', 0512634567, 'nezeh77@gmail,com', to\_date('02.12.1977','dd.mm.yyyy'));  
insert into personal\_info values('Serxan', 'Talibov', 44, 'Hezi Aslanov', 0509897765, '[sertal89@mail.ru](mailto:sertal89@mail.ru)', to\_date('14.11.1978','dd.mm.yyyy'));  
insert into personal\_info values('Tamella', 'Orucova', 21, 'Koroghlu', 0552554557, '[tmlloruc29@gmail.com](mailto:tmlloruc29@gmail.com)', to\_date('09.07.2001','dd.mm.yyyy'));  
  
select\*from personal\_info2  
  
alter table personal\_info rename to personal\_info2  
alter table personal\_info2 rename column name1 to first\_name  
alter table personal\_info2 add salary number(5)  
alter table personal\_info2 modify surname nvarchar2(20)  
flashback table info to before drop;  
  
select\*from info;

select to\_char(date\_of\_birth,'dd.mm.yyyy') from personal\_info2;  
  
create table students(  
names varchar2 (20),  
surnames varchar2 (20),  
emails varchar2 (30),  
addresses varchar2 (30),  
mobile\_numbers number(12));  
  
insert into students(names, surnames, addresses, mobile\_numbers, emails) values ('Elxan', 'Mammadov', 'Yasamal', 0772456674, '[elxanmemmedov29@gmail.com](mailto:elxanmemmedov29@gmail.com)');  
insert into students(names, surnames, addresses, mobile\_numbers, emails) values ('Emil', 'Mehdixanli', 'Memar Acami', 0517234592, '[emilmehdixanli27@gmail.com](mailto:emilmehdixanli27@gmail.com)');  
insert into students(names, surnames, addresses, mobile\_numbers, emails) values ('Emiliya', 'Hasanzade', 'Yasamal', 0554840124, '[emilyahesenzade33@gmail.com](mailto:emilyahesenzade33@gmail.com)');  
insert into students(names, surnames, addresses, mobile\_numbers, emails) values ('Omar', 'Askerov', 'Hazi Aslanov', 0557654322, '[omaraskerov21@gmail.com](mailto:omaraskerov21@gmail.com)');  
insert into students(names, surnames, addresses, mobile\_numbers, emails) values ('Nazila', 'Babazade', 'Yasamal', 0553829958, '[nazilababazade49@gmail.com](mailto:nazilababazade49@gmail.com)');  
insert into students(names, surnames, addresses, mobile\_numbers, emails) values ('Maryam', 'Hajiyeva', 'Nizami', 0512634568, '[maryamhajiyeva10@gmail.com](mailto:maryamhajiyeva10@gmail.com)');  
insert into students(names, surnames, addresses, mobile\_numbers, emails) values ('Elturan','Aghalarli', 'Elmler Akademiyasi', 0509897769, '[elturanagalarli19@gmail.com](mailto:elturanagalarli19@gmail.com)');  
  
select\*from students;  
  
  
create table teachers(  
names varchar2 (20),  
surnames varchar2 (20),  
emails varchar2 (30),  
addresses varchar2 (30),  
mobile\_numbers number);  
  
  
insert into  teachers(names, surnames, addresses, mobile\_numbers, emails) values('Elnur', 'Mammadov', 'Yasamal', 0772456675, '[elnurmemmedov39@gmail.com](mailto:elnurmemmedov39@gmail.com)');  
insert into  teachers(names, surnames, addresses, mobile\_numbers, emails) values('Murad', 'Mehdixanli', 'Memar Acami', 0517234593, '[muradmehdixanli37@gmail.com](mailto:muradmehdixanli37@gmail.com)');  
insert into  teachers(names, surnames, addresses, mobile\_numbers, emails) values('Elmira', 'Hasanzade', 'Yasamal', 0554840125, '[emilyahesenzade43@gmail.com](mailto:emilyahesenzade43@gmail.com)');  
insert into  teachers(names, surnames, addresses, mobile\_numbers, emails) values('Samir', 'Askerov', 'Hazi Aslanov', 0557654323, '[samiraskerov31@gmail.com](mailto:samiraskerov31@gmail.com)');  
insert into  teachers(names, surnames, addresses, mobile\_numbers, emails) values('Mujgan', 'Babazade', 'Yasamal', 0553829959, '[mujganbabazade59@gmail.com](mailto:mujganbabazade59@gmail.com)');  
insert into  teachers(names, surnames, addresses, mobile\_numbers, emails) values('Alida', 'Hajiyeva', 'Nizami', 0512634569, '[alidahajiyeva20@gmail.com](mailto:alidahajiyeva20@gmail.com)');  
insert into  teachers(names, surnames, addresses, mobile\_numbers, emails) values('Rustam','Aghalarli', 'Elmler Akademiyasi', 0509897770, '[rustamagalarli49@gmail.com](mailto:rustamagalarli49@gmail.com)');  
  
select\*from teachers;  
  
create table stores(  
store\_names varchar2 (30),  
store\_emails varchar2 (30),  
addresses varchar2 (30),  
contact\_numbers number(12));  
  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Libraf', '[libraf100@gmail.com](mailto:libraf100@gmail.com)', 'Inshaatchilar', 0552003010);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Ali and Nino', '[aliandnino101@gmail.com](mailto:aliandnino101@gmail.com)', 'Sahil', 0552003020);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Chiraq', '[chiraq102@gmail.com](mailto:chiraq102@gmail.com)', 'Icharishahar', 0552003030);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Bookmark', '[bookmark103@gmail.com](mailto:bookmark103@gmail.com)', 'Hazi Aslanov', 0552003040);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Ekitab', '[ekitab104@gmail.com](mailto:ekitab104@gmail.com)', 'Nasimi', 0552003050);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Nobel', '[nobel106@gmail.com](mailto:nobel106@gmail.com)', 'Memar Acami', 0552003060);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Bookzone', '[bookzone107@gmail.com](mailto:bookzone107@gmail.com)', 'Darnagul', 0552003070);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Zara', '[zara100@gmail.com](mailto:zara100@gmail.com)', 'Inshaatchilar', 0552003010);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Bershka', '[bershka101@gmail.com](mailto:bershka101@gmail.com)', 'Sahil', 0552003020);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Pull and Bear', '[pullandbearchiraq102@gmail.com](mailto:pullandbearchiraq102@gmail.com)', 'Icharishahar', 0552003030);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('LC Waikiki', '[lcwaikiki103@gmail.com](mailto:lcwaikiki103@gmail.com)', 'Hazi Aslanov', 0552003040);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Mother Care', '[mothercare104@gmail.com](mailto:mothercare104@gmail.com)', 'Nasimi', 0552003050);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('United Colors Of Beneton', '[unitedcol106@gmail.com](mailto:unitedcol106@gmail.com)', 'Memar Acami', 0552003060);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Pink', '[pink107@gmail.com](mailto:pink107@gmail.com)', 'Darnagul', 0552003070);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Polo', '[polo100@gmail.com](mailto:polo100@gmail.com)', 'Inshaatchilar', 0552003010);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Swatch', '[swatch101@gmail.com](mailto:swatch101@gmail.com)', 'Sahil', 0552003020);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Samsung', '[samsung102@gmail.com](mailto:samsung102@gmail.com)', 'Icharishahar', 0552003030);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Iphone', '[iphone103@gmail.com](mailto:iphone103@gmail.com)', 'Hazi Aslanov', 0552003040);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Nike', '[nike104@gmail.com](mailto:nike104@gmail.com)', 'Nasimi', 0552003050);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Adidas', '[adidas106@gmail.com](mailto:adidas106@gmail.com)', 'Memar Acami', 0552003060);  
insert into stores(store\_names, store\_emails, addresses, contact\_numbers) values ('Chanel', '[chanel107@gmail.com](mailto:chanel107@gmail.com)', 'Darnagul', 0552003070);  
  
select\*from stores;

2)   
create table customers(

id number primary key,

names varchar2(20) not null,

surnames varchar2(20) not null,

phone\_nums number not null unique,

age number(3) not null check(age>17)

);

insert into customers values(1,'Elnur', 'Mammadov', 0772456675, 18);

insert into customers values(2,'Murad', 'Mehdixanli', 0517234593, 27);

insert into customers values(3,'Elmira', 'Hasanzade', 0554840125, 19);

insert into customers values(4,'Samir', 'Askerov', 0557654323, 35);

insert into customers values(5,'Mujgan', 'Babazade', 0553829959, 44);

insert into customers values(6,'Alida', 'Hajiyeva', 0512634569, 32);

insert into customers values(7,'Rustam','Aghalarli', 0509897770, 53);

select\*from customers;

create table employees(

ids number,

names varchar2(20) not null,

surname varchar2(20) not null,

salary number not null,

constraint idcon primary key(ids),

constraint namescon unique(names),

constraint surnamecon unique(surname),

constraint salarycon check(salary<5500)

);

insert into employees values (11, 'Elxan', 'Mammadov', 4000);

insert into employees values (12, 'Emil', 'Mehdixanli', 5000);

insert into employees values (13, 'Emiliya', 'Hasanzade', 3256);

insert into employees values (14, 'Omar', 'Askerov', 3490);

insert into employees values (15, 'Nazila', 'Babazade', 3400);

insert into employees values (16, 'Maryam', 'Hajiyeva', 2350);

insert into employees values (17, 'Elturan','Aghalarli', 3500);

select\*from employees;

create table services(

ids number check (ids>40),

names varchar2(30) not null,

mobile number not null constraints mobilesss check(mobile>9999999999999999),

assigned\_emp\_name varchar2(30) not null,

assigned\_emp\_surname varchar2(30) not null,

salary number not null

);

alter table services modify ids constraint idsss primary key;

alter table services add constraint salaries check (salary>3000);

alter table services drop constraints mobilesss;

alter table services add constraint names1 unique(names);

alter table services add constraint mobile1 unique(mobile);

alter table employees drop constraint salarycon;

alter table employees add constraint salries2 check(salary>1000);

insert into services values (41, 'repair', 0553169878, 'Mehdi', 'Salmanov',3800);

insert into services values(42,'painting', 0512564888, 'Aylin', 'Memmedli', 4600);

insert into services values(43,'design', 0701532648, 'Nazim', 'Qubadli', 3200 );

insert into services values(44, 'construction', 0502468556, 'Ayten', 'Seferli', 4100 );

insert into services values(45, 'customer service', 0779845611, 'Rauf', 'Suleymanli',3300 );

insert into services values(46, 'delivery', 0556845533,'Nezrin', 'Ehmedova', 3450 );

insert into services values(47, 'grooming', 0512378415, 'Serxan', 'Talibov', 4500);

insert into services values(48, 'treatment', 0558521634, 'Tamella', 'Orucova', 5000 );

select\*from services;

create table stores(

store\_names varchar2 (30) not null,

store\_emails varchar2 (30) not null,

addresses varchar2 (30) not null,

contact\_numbers number(12) not null check(contact\_numbers<99999999999),

constraint sda primary key(contact\_numbers)

);

insert into stores values ('Libraf', '[libraf100@gmail.com](mailto:libraf100@gmail.com)', 'Inshaatchilar', 0552003010);

insert into stores values ('Ali and Nino', '[aliandnino101@gmail.com](mailto:aliandnino101@gmail.com)', 'Sahil', 0552003020);

insert into stores values ('Chiraq', '[chiraq102@gmail.com](mailto:chiraq102@gmail.com)', 'Icharishahar', 0552003030);

insert into stores values ('Bookmark', '[bookmark103@gmail.com](mailto:bookmark103@gmail.com)', 'Hazi Aslanov', 0552003040);

insert into stores values ('Ekitab', '[ekitab104@gmail.com](mailto:ekitab104@gmail.com)', 'Nasimi', 0552003050);

insert into stores values ('Nobel', '[nobel106@gmail.com](mailto:nobel106@gmail.com)', 'Memar Acami', 0552003060);

insert into stores values ('Bookzone', '[bookzone107@gmail.com](mailto:bookzone107@gmail.com)', 'Darnagul', 0552003070);

insert into stores values ('Zara', '[zara100@gmail.com](mailto:zara100@gmail.com)', 'Inshaatchilar', 0552003080);

insert into stores values ('Bershka', '[bershka101@gmail.com](mailto:bershka101@gmail.com)', 'Sahil', 0552003090);

insert into stores values ('Pull and Bear', '[pullandbearchiraq102@gmail.com](mailto:pullandbearchiraq102@gmail.com)', 'Icharishahar', 0552003031);

insert into stores values ('LC Waikiki', '[lcwaikiki103@gmail.com](mailto:lcwaikiki103@gmail.com)', 'Hazi Aslanov', 0552003041);

insert into stores values ('Mother Care', '[mothercare104@gmail.com](mailto:mothercare104@gmail.com)', 'Nasimi', 0552003051);

insert into stores values ('United Colors Of Beneton', '[unitedcol106@gmail.com](mailto:unitedcol106@gmail.com)', 'Memar Acami', 0552003061);

insert into stores values ('Pink', '[pink107@gmail.com](mailto:pink107@gmail.com)', 'Darnagul', 0552003071);

insert into stores values ('Polo', '[polo100@gmail.com](mailto:polo100@gmail.com)', 'Inshaatchilar', 0552003012);

insert into stores values ('Swatch', '[swatch101@gmail.com](mailto:swatch101@gmail.com)', 'Sahil', 0552003022);

insert into stores values ('Samsung', '[samsung102@gmail.com](mailto:samsung102@gmail.com)', 'Icharishahar', 0552003032);

insert into stores values ('Iphone', '[iphone103@gmail.com](mailto:iphone103@gmail.com)', 'Hazi Aslanov', 0552003042);

insert into stores values ('Nike', '[nike104@gmail.com](mailto:nike104@gmail.com)', 'Nasimi', 0552003052);

insert into stores values ('Adidas', '[adidas106@gmail.com](mailto:adidas106@gmail.com)', 'Memar Acami', 0552003062);

insert into stores values ('Chanel', '[chanel107@gmail.com](mailto:chanel107@gmail.com)', 'Darnagul', 0552003072);

select\*from stores;

3)   
create table book\_stores(

stores\_id number primary key,

store\_names varchar2 (20),

store\_emails varchar2 (30),

addresses varchar2 (30),

contact\_numbers number

);

insert into book\_stores values (101, 'Libraf', '[libraf100@gmail.com](mailto:libraf100@gmail.com)', 'Inshaatchilar', 0552003010);

insert into book\_stores values (102, 'Ali and Nino', '[aliandnino101@gmail.com](mailto:aliandnino101@gmail.com)', 'Sahil', 0552003020);

insert into book\_stores values (103, 'Chiraq', '[chiraq102@gmail.com](mailto:chiraq102@gmail.com)', 'Icharishahar', 0552003030);

insert into book\_stores values (104, 'Bookmark', '[bookmark103@gmail.com](mailto:bookmark103@gmail.com)', 'Hazi Aslanov', 0552003040);

insert into book\_stores values (105, 'Ekitab', '[ekitab104@gmail.com](mailto:ekitab104@gmail.com)', 'Nasimi', 0552003050);

insert into book\_stores values (106, 'Nobel', '[nobel106@gmail.com](mailto:nobel106@gmail.com)', 'Memar Acami', 0552003060);

insert into book\_stores values (107, 'Bookzone', '[bookzone107@gmail.com](mailto:bookzone107@gmail.com)', 'Darnagul', 0552003070);

create table book\_category(

category\_id number primary key,

category\_name varchar2(20)

);

insert into book\_category values (1, 'National literature');

insert into book\_category values (2, 'Foreign literature');

insert into book\_category values (3, 'Science');

create table l\_books(

book\_id number primary key,

names varchar(40),

authors varchar(20),

category\_id number references book\_category (category\_id) on delete set null

);

insert into l\_books values (200, 'Mavi qatarin sirri', 'Aghata Christy',2);

insert into l\_books values (201, 'Pollyanna', 'Eleanor Porter',2);

insert into l\_books values (202, 'Mauqli', 'Rudyard Kipling',2);

insert into l\_books values (203, 'Tom dayinin daxmasi', 'Harriyet Bicer-Stou',2);

insert into l\_books values (204, 'Spider-man', 'Sten Li',2);

insert into l\_books values (205, 'Avatar AAng', 'Aaron Ehasz',2);

insert into l\_books values (206, 'Invsible man', 'Leigh Whannell',2);

insert into l\_books values (207, 'Bassiz atli', 'Mayn Rid',2);

insert into l\_books values (208, 'The 13 Problems', 'Aghata Christy',2);

insert into l\_books values (209, 'A', 'Qaraqan',1);

insert into l\_books values (210, 'Quantum Physics', 'Albert Einstein',3);

insert into l\_books values (211, '5 mertebeli binanin 6-ci mertebesi', 'Anar Rzayev',1);

insert into l\_books values (212, 'Xeyanet', 'Elxan Elatli', 1);

insert into l\_books values (213, 'Human anatomy', 'Frank H. Netter',3);

create table book\_info(

book\_id number references l\_books (book\_id) on delete set null,

bought\_from\_id number,

amount number,

price number,

constraint refs foreign key (bought\_from\_id) references book\_stores (stores\_id) on delete cascade

);

insert into book\_info values (200, 103, 10, 10);

insert into book\_info values (201,104,20,20);

insert into book\_info values (202,105,8,7);

insert into book\_info values (203,106, 9, 9);

insert into book\_info values (204, 101, 20, 12);

insert into book\_info values (205, 102, 5, 30);

insert into book\_info values (206, 107, 14, 11);

insert into book\_info values (207, 101, 5, 4);

insert into book\_info values (208, 102, 10, 13);

insert into book\_info values (209, 103, 8, 5);

drop table l\_books;

drop table book\_info;

delete from l\_books;

delete from book\_info;

select\*from l\_books;

select\*from book\_info;

select\*from book\_stores;

4) **String funksiyalarına aid kod**

create table info (

full\_name varchar2(50),

email varchar2(50)

);

insert into info values ('Elxan Mammadov Ceyhun Oglu', '[memmedovelxan216@gmail.com](mailto:memmedovelxan216@gmail.com)');

select\*from info;

select replace((substr(full\_name, instr(full\_name, ' '))), substr(full\_name, instr(full\_name, ' ', 1,2)), substr(full\_name,1,5)) from info;

select instr(full\_name, ' ') from info;

select replace(full\_name, substr(full\_name, instr(full\_name, ' ',1, 1)), ' ') from info;

select substr(full\_name, instr(full\_name, ' ' )) from info;

select substr(full\_name, instr(full\_name, ' ', 1, 2)) from info;

select replace(substr(full\_name, instr(full\_name, ' ' )), substr(full\_name, instr(full\_name, ' ', 1, 2)), ' ') from info;

select (select replace(substr(full\_name, instr(full\_name, ' ' )), substr(full\_name, instr(full\_name, ' ', 1, 2)), ' ') from info) || (select replace(full\_name, substr(full\_name, instr(full\_name, ' ',1, 1)), ' ') from info) || (select substr(full\_name, instr(full\_name, ' ', 1, 2)) from info) from dual;

5) **1 ay ərzində olan Bazar ertələrini çıxardan kod**

select to\_char(to\_date('01-SEP-22'), 'DAY') day FROM dual; Select to\_date('01-SEP-22')+4+7\*(level-1)

from dual

connect by level<=4;

6) **2 tarix arasındakı günlərin sayı**

select to\_date('27-MAY-23')-sysdate from dual;

7) **2 tarix arasındakı bütün günləri çıxardan kod**

select sysdate + level

from dual

connect by level <= to\_date('27-MAY-23')-sysdate+1;

8) **Hansı işçi hansı məhsulu satıb**

select first\_name, last\_name, product\_name, quantity from employees e

inner join orders o

on e.employee\_id=o.salesman\_id

inner join order\_items oi

on o.order\_id=oi.order\_id

inner join products p

on oi.order\_id=p.product\_id;

9) **Hansı işçi hansı anbardan nə qədər məhsul satıb**

select

warehouse\_name,

sum(i.quantity),

first\_name,

last\_name

from employees e

inner join orders o

on e.employee\_id=o.salesman\_id

inner join order\_items oi

on o.order\_id=oi.order\_id

inner join products p

on oi.order\_id=p.product\_id

inner join inventories i

on p.product\_id=i.product\_id

inner join warehouses w

on i.warehouse\_id=w.warehouse\_id

group by warehouse\_name, first\_name, last\_name

order by first\_name;