

```

-- 1 Task
--blob: binary large object - object is a large collection of
-- uninterpreted binary data (whose interpretation is left to
-- an application outside of the database system).
--
--clob: character large object - object is a large collection
-- of character data.

-- 2 Task
--We may assign a user several forms of authorizations on
--parts of the database : Read, Insert, Update, Delete.
--Each of these types of authorizations is called a privilege.
--
--A role is a way to distinguish among various users as far
--as what these users can access/update in the database.

create role accountant;
grant select on accounts to accountant;

create role administrator;
grant all privileges on accounts, customers, transactions to
administrator with grant option ;

create role support;
grant select, update on customers to support;

create user Misato;
create user Asuka;
create user Sinji;

grant accountant to Asuka;
grant administrator to Misato;
grant support to Sinji;

revoke update on customers from Sinji;

-- 3 Task

alter table accounts alter column currency set NOT NULL;
alter table transactions alter column date set NOT NULL;

-- 5 Task

create index customer_account on accounts (customer_id, currency);
create index Transaction_index on accounts (balance, currency);

--6 Task

begin;
update accounts set balance = balance - 400
  where account_id = 'RS88012';
update accounts set balance = balance + 400
  where account_id = 'NT10204';
commit;

```