Assessment 3 (SQL)

LOAN

```
create database loan;
use loan;

CREATE TABLE loan_card_master
(
	loan_id	varchar(6)	PRIMARY KEY,
	loan_type	varchar(15),
	duration_in_years int(2)
);

CREATE TABLE employee_master
(
	employee_id	varchar(6)	PRIMARY KEY,
	employee_name	varchar(20),
	designation	varchar(25),
department	varchar(25),
	gender	char(1),
	date_of_birth	date,
	date_of_joining	date
);

CREATE TABLE item_master
(
	item_id	varchar(6)	PRIMARY KEY,
	item_description	varchar(25),
	issue_status	char(1),
	item_make	varchar(25),
	item_category	varchar(20),
	item_valuation	int(6)
);

CREATE TABLE employee_card_details
(
	employee_id	varchar(6)	REFERENCES	employee_master,
	loan_id	varchar(6)	REFERENCES loan_card_master,
	card_issue_date	date
);
```

```
CREATE TABLE employee_issue_details
(
    issue_id    varchar(6)  PRIMARY KEY,
    employee_id     varchar(6)  REFERENCES  employee_master,
    item_id     varchar(6)  REFERENCES item_master,
    issue_date      date,
    return_date     date
);

insert into loan_card_master values('L00001','Furniture',5);
insert into loan_card_master values('L00002','Stationary',0);
insert into loan_card_master values('L00003','Crockery',1);



insert into employee_issue_details
values('ISS001','E00001','I00001','2012-02-03','2014-02-03');
insert into employee_issue_details
values('ISS002','E00001','I00004','2012-02-03','2020-02-03');
insert into employee_issue_details
values('ISS003','E00002','I00005','2013-01-03','2015-01-03');
insert into employee_issue_details
values('ISS004','E00003','I00007','2010-07-04','2012-07-04');
insert into employee_issue_details
values('ISS005','E00003','I00008','2010-07-04','2012-08-05');
insert into employee_issue_details
values('ISS006','E00003','I00010','2012-03-14','2012-06-15');
insert into employee_issue_details
values('ISS007','E00004','I00012','2013-04-14','2016-04-14');
insert into employee_issue_details
values('ISS008','E00006','I00018','2012-08-18','2019-04-17');
insert into employee_issue_details
values('ISS009','E00004','I00018','2013-04-18','2013-05-18');


insert into employee_master
values('E00001','Ram','Manager','Finance','M','1973-12-01','2000-01-01');
insert into employee_master values('E00002','Abhay','Assistant
Manager','Finance','M','1976-01-01','2006-12-01');
insert into employee_master values('E00003','Anita','Senior
Executive','Marketing','F','1977-05-12','2007-03-21');
insert into employee_master
values('E00004','Zuben','Manager','Marketing','M','1974-10-12','2003-07-2
3');
```

```
insert into employee_master
values('E00005','Radhica','Manager','HR','F','1976-07-22','2004-01-23');
insert into employee_master
values('E00006','John','Executive','HR','M','1983-11-08','2010-05-17');

insert into employee_card_details values('E00001','L00001','2000-01-01');
insert into employee_card_details values('E00001','L00002','2000-01-01');
insert into employee_card_details values('E00001','L00003','2002-12-14');
insert into employee_card_details
values('E00002','L00001','2007-02-01');
insert into employee_card_details
values('E00002','L00002','2007-03-11');
insert into employee_card_details
values('E00003','L00001','2007-04-15');
insert into employee_card_details
values('E00003','L00002','2007-04-15');
insert into employee_card_details
values('E00003','L00003','2007-04-15');



INSERT INTO item_master VALUES ('I00001','Tea
Table','Y','Wooden','Furniture',5000);
INSERT INTO item_master VALUES  ('I00002','Dinning
Table','N','Wooden','Furniture',15000);
INSERT INTO item_master VALUES    ('I00003','Tea
Table','N','Steel','Furniture',6000);
INSERT INTO item_master VALUES    ('I00004','Side
Table','Y','Wooden','Furniture',2000);
INSERT INTO item_master VALUES    ('I00005','Side
Table','Y','Steel','Furniture',1500);
INSERT INTO item_master VALUES    ('I00006','Tea
Table','N','Steel','Furniture',7000);
INSERT INTO item_master VALUES    ('I00007','Dinning
Chair','Y','Wooden','Furniture',1500);
INSERT INTO item_master VALUES    ('I00008','Tea
Table','Y','Wooden','Furniture',4000);
INSERT INTO item_master VALUES
('I00009','Sofa','N','Wooden','Furniture',18000);
INSERT INTO item_master VALUES
('I00010','Cupboard','Y','Steel','Furniture',10000);
INSERT INTO item_master VALUES
('I00011','Cupboard','N','Steel','Furniture',14000);
INSERT INTO item_master VALUES    ('I00012','Double
```

```
Bed','Y','Wooden','Furniture',21000);
INSERT INTO item_master VALUES    ('I00013','Double
Bed','Y','Wooden','Furniture',20000);
INSERT INTO item_master VALUES    ('I00014','Single
Bed','Y','Steel','Furniture',10000);
INSERT INTO item_master VALUES    ('I00015','Single
Bed','N','Steel','Furniture',10000);
INSERT INTO item_master VALUES    ('I00016','Tea
Set','Y','Glass','Crockery',3000);
INSERT INTO item_master VALUES    ('I00017','Tea
Set','Y','Bonechina','Crockery',4000);
INSERT INTO item_master VALUES    ('I00018','Dinning
Set','Y','Glass','Crockery',4500);
INSERT INTO item_master VALUES    ('I00019','Dinning
Set','N','Bonechina','Crockery',5000);
INSERT INTO item_master VALUES
('I00020','Pencil','Y','Wooden','Stationary',5);
INSERT INTO item_master VALUES
('I00021','Pen','Y','Plastic','Stationary',100);
INSERT INTO item_master VALUES
('I00022','Pen','N','Plastic','Stationary',200);
```

LOAN CARD MASTER

loan_id	loan_type	duration_in_years
L00001	Furniture	5
L00002	Stationary	0
L00003	Crockery	1
NULL	NULL	NULL

EMPLOYEE CARD DETAILS

employee_id	loan_id	card_issue_date
E00001	L00001	2000-01-01
E00001	L00002	2000-01-01
E00001	L00003	2002-12-14
E00002	L00001	2007-02-01
E00002	L00002	2007-03-11
E00003	L00001	2007-04-15
E00003	L00002	2007-04-15
E00003	L00003	2007-04-15

EMPLOYEE ISSUE DETAILS

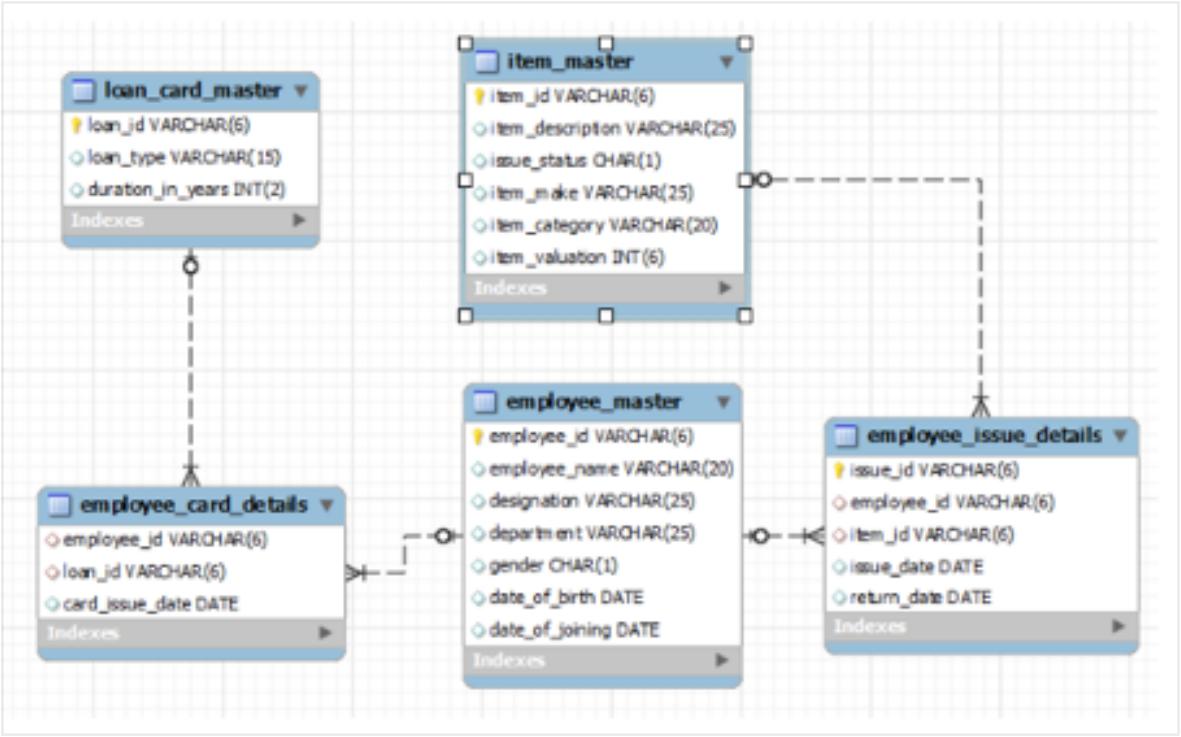
issue_id	employee_id	item_id	issue_date	return_date
ISS001	E00001	I00001	2012-02-03	2014-02-03
ISS002	E00001	I00004	2012-02-03	2020-02-03
ISS003	E00002	I00005	2013-01-03	2015-01-03
ISS004	E00003	I00007	2010-07-04	2012-07-04
ISS005	E00003	I00008	2010-07-04	2012-08-05
ISS006	E00003	I00010	2012-03-14	2012-06-15
ISS007	E00004	I00012	2013-04-14	2016-04-14
ISS008	E00006	I00018	2012-08-18	2019-04-17
ISS009	E00004	I00018	2013-04-18	2013-05-18
NULL	NULL	NULL	NULL	NULL

EMPLOYEE MASTER

employee_id	employee_name	designation	department	gender	date_of_bith	date_of_joining
E00001	Ram	Manager	Finance	M	1973-12-01	2000-01-01
E00002	Abhay	Assistant Manager	Finance	M	1976-01-01	2006-12-01
E00003	Anita	Senior Executive	Marketing	F	1977-05-12	2007-03-21
E00004	Zuben	Manager	Marketing	M	1974-10-12	2003-07-23
E00005	Radhica	Manager	HR	F	1976-07-22	2004-01-23
E00006	John	Executive	HR	M	1983-11-08	2010-05-17
NULL	NULL	NULL	NULL	NULL	NULL	NULL

ITEM MASTER

item_id	item_description	issue_status	item_make	item_category	item_valuation
I00001	Tea Table	Y	Wooden	Furniture	5000
I00002	Dinning Table	N	Wooden	Furniture	15000
I00003	Tea Table	N	Steel	Furniture	6000
I00004	Side Table	Y	Wooden	Furniture	2000
I00005	Side Table	Y	Steel	Furniture	1500
I00006	Tea Table	N	Steel	Furniture	7000
I00007	Dinning Chair	Y	Wooden	Furniture	1500
I00008	Tea Table	Y	Wooden	Furniture	4000
I00009	Sofa	N	Wooden	Furniture	18000
I00010	Cupboard	Y	Steel	Furniture	10000
I00011	Cupboard	N	Steel	Furniture	14000
I00012	Double Bed	Y	Wooden	Furniture	21000
I00013	Double Bed	Y	Wooden	Furniture	20000
I00014	Single Bed	Y	Steel	Furniture	10000
I00015	Single Bed	N	Steel	Furniture	10000
I00016	Tea Set	Y	Glass	Crockery	3000
I00017	Tea Set	Y	Bonechina	Crockery	4000
I00018	Dinning Set	Y	Glass	Crockery	4500
I00019	Dinning Set	N	Bonechina	Crockery	5000
I00020	Pencil	Y	Wooden	Stationary	5
I00021	Pen	Y	Plastic	Stationary	100
I00022	Pen	N	Plastic	Stationary	200
NULL	NULL	NULL	NULL	NULL	NULL



1. Write a query to display category and number of items in that category. Give the count an alias name of Count_category. Display the details on the sorted order of count in descending order.

item_category	Count_category
Furniture	15
Crockery	4
Stationary	3

2. Write a query to display the number of employees in HR department. Give the alias name as No_of_Employees.

No_of_Employees
2

3. Write a query to display employee id, employee name, designation and department for employees who have never been issued an item as a loan from the company. Display the records sorted in ascending order based on employee id.

employee_id	employee_name	designation	department
E00005	Radhica	Manager	HR
NULL	NULL	NULL	NULL

4. Write a query to display the employee id, employee name who was issued an item of highest valuation. In case of multiple records, display the records sorted in ascending order based on employee id. [Hint Suppose an item called dinning table is of 22000 and that is the highest price of the item that has been issued. So display the employee id and employee name who issued dinning table whose price is 22000.]

employee_id	employee_name
E00004	Zuben
NULL	NULL

5. Write a query to display issue_id, employee_id, employee_name. Display the records sorted in ascending order based on issue id.

issue_id	employee_id	employee_name
ISS001	E00001	Ram
ISS002	E00001	Ram
ISS003	E00002	Abhay
ISS004	E00003	Anita
ISS005	E00003	Anita
ISS006	E00003	Anita
ISS007	E00004	Zuben
ISS008	E00006	John
ISS009	E00004	Zuben

6. Write a query to display employee id, employee name who don't have loan cards.Display the records sorted in ascending order based on employee id.

employee_id	employee_name
E00004	Zuben
E00005	Radhica
E00006	John
NULL	NULL

7. Write a query to count the number of cards issued to an employee "Ram". Give the count an alias name as No_of_Cards.

No_of_Cards
3

8. Write a query to display the count of customers who have gone for loan type stationary. Give the count an alias name as Count_stationary.

Count_Stationary
3

9. Write a query to display the employee id, employee name and number of items issued to them. Give the number of items an alias name as Count. Display the details in descending order of count and then

employee_id	employee_name	Count
E00003	Anita	3
E00001	Ram	2
E00004	Zuben	2
E00002	Abhay	1
E00006	John	1

10. Write a query to display the employee id, employee name who was

issued an item of minimum valuation.In case of multiple records, display them sorted in ascending order based on employee id.[Hint Suppose an item called pen is of rupees 20 and that is the lowest price. So display the employee id and employee name who issued pen where the valuation is 20.]

11. Create stored procedures to perform CRUD operations on Employee_Master table in Loan database