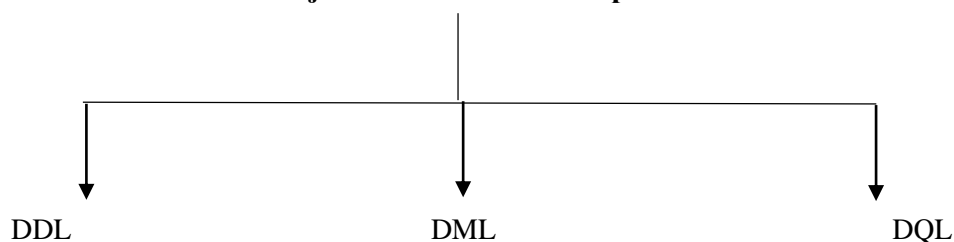


Equipment Rental Company Database

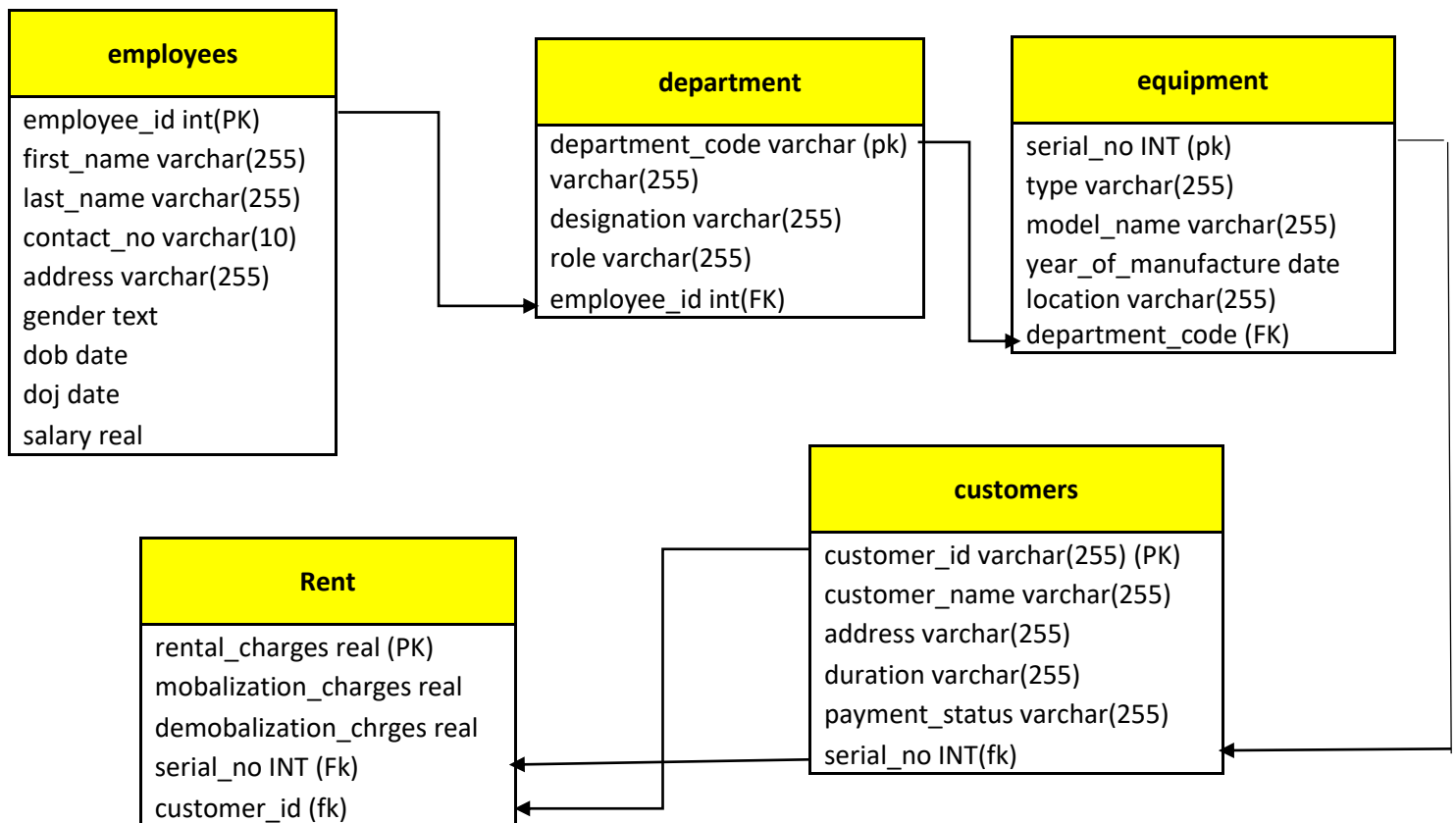
Company Name-iRISE India private limited

IRISE India private limited is an equipment rental company located in Mumbai. They provided equipment like Cranes, Boom lift, and JCB etc. etc. on rental basis to different customers on different location

Project is divided into 3 parts



ERD FOR DATABASE:-



1. DDL (DATA DEFINATION LANGUAGE):-

- Create database iRISE_INDIA_PVT_LTD

Create table employees(Employee_id Int Primary key NOT NULL,First_name Varchar(25),Last_name varchar(25),Contact_No varchar(10) NOT NULL,ADDRESS VARCHAR(255),Gender text,Dob Date NOT NULL, DOJ DATE NOT NULL,SALARY REAL NOT NULL);

Create table department(department_code varchar(255) primary key NOT NULL,Designation varchar(255) NOT NULL,employee_id int,Foreign key(employee_id) References employees(employee_id));

Create Table Equipment(Serial_No INT Primary key NOT NULL,Type Varchar(255) NOT NULL,Model_Name Varchar(255) NOT NULL,Year_of_Manufacture Date NOT NULL,Location Varchar(255) NOT NULL,department_code varchar(255),Foreign Key(department_code)References department(department_code));

Create Table Customers(Customer_id Varchar(255) Primary Key NOT NULL,customer_name Varchar(255) NOT NULL,Address Varchar(255) NOT NULL,Duration varchar(255),Payment_Status Varchar(255), Serial_no Int,Foreign key(serial_no)References equipment(serial_no));

Create Table Rent(Rental_charges real Primary key NOT NULL,Mobalization_charges REAL NOT NULL, Demobalization_charges real NOT NULL,Serial_no INT,Foreign key(serial_no)References equipment(serial_no),customer_id varchar(255),Foreign key(customer_id)references customers(customer_id));

Data Output Messages Notifications							
	employee_id [PK] integer	first_name character varying (25)	last_name character varying (25)	contact_no character varying (10)	address character varying (255)	gender text	dob date
1	1001	Shruti	Chavan	8879719287	702/Annexe Building,Borivali west	Female	1999-1
2	1002	Ankita	Kadam	8578459625	102,Girnar Society,Goregaon east	female	1997-1
3	1003	Harshad	Kadam	5863547852	102,Girnar Society,Goregaon east	Male	1994-0
4	1004	Anjali	Shigvan	4578535689	Versova Andheri east	Female	1998-0
5	1005	Meena	Salvi	4578523645	santosh nagar,goregaon east	Female	1995-0
6	1006	Hari	Arurekar	7858895236	Kalachowki	Male	1998-0
7	1007	Ammar	khan	7896586326	405/B-wing,Grand residency,bandra west	Male	1996-1
8	1008	Satish	Malkar	7856892358	Chunabhatti	Male	1992-0
9	1009	Vinod	Devangeri	9685743625	Marol naka ,Andheri(east)	Male	1968-0
10	1010	Shraddha	Kadam	7845855863	Andheri west	Female	1991-1

➤ ALTER

Alter table employees

Add column Age int;

Alter table employees

rename column contact_no to Phone_no;

	employee_id [PK] integer	first_name character varying (25)	last_name character varying (25)	phone_no character varying (10)	address character varying (255)	gender text	dob date
1	1001	Shruti	Chavan	8879719287	702/Annexe Building,Borivali west	Female	1999-11
2	1002	Ankita	Kadam	8578459625	102,Girnar Society,Goregaon east	female	1997-12
3	1003	Harshad	Kadam	5863547852	102,Girnar Society,Goregaon east	Male	1994-02
4	1004	Anjali	Shigvan	4578535689	Versova Andheri east	Female	1998-02
5	1005	Meena	Salvi	4578523645	santosh nagar,goregaon east	Female	1995-02
6	1006	Hari	Arurekar	7858895236	Kalachowki	Male	1998-07
7	1007	Ammar	khan	7896586326	405/B-wing,Grand residency,bandra west	Male	1996-11
8	1008	Satish	Malkar	7856892358	Chunabhatti	Male	1992-05
9	1009	Vinod	Devangeri	9685743625	Marol naka ,Andheri(east)	Male	1968-05
10	1010	Shraddha	Kadam	7845855863	Andheri west	Female	1991-11

Data Output

Messages

Notifications

	name character varying (25)	phone_no character varying (10)	address character varying (255)	gender text	dob date	doj date	salary real	age integer
1	van	8879719287	702/Annexe Building,Borivali west	Female	1999-11-22	2022-02-22	25000	[null]
2	am	8578459625	102,Girnar Society,Goregaon east	female	1997-12-12	2022-02-04	25000	[null]
3	am	5863547852	102,Girnar Society,Goregaon east	Male	1994-02-17	2022-12-01	30000	[null]
4	van	4578535689	Versova Andheri east	Female	1998-02-02	2023-01-01	36000	[null]
5	i	4578523645	santosh nagar,goregaon east	Female	1995-02-12	2021-12-12	12000	[null]
6	ekar	7858895236	Kalachowki	Male	1998-07-26	2019-06-05	56000	[null]
7	i	7896586326	405/B-wing,Grand residency,bandra west	Male	1996-11-02	2018-02-02	85000	[null]
8	kar	7856892358	Chunabhatti	Male	1992-05-12	2017-02-06	20000	[null]
9	angeri	9685743625	Marol naka ,Andheri(east)	Male	1968-05-05	2005-05-05	85000	[null]
10	am	7845855863	Andheri west	Female	1991-11-22	2022-11-22	40000	[null]

2. DML (DATA MANUPULATION LANGUAGE):-

Insert into employees(employee_id,first_name,last_name,contact_no,address,gender,dob,doj,salary)

values(1001,'Shruti','Chavan','8879719287','702/Annexe Building,Borivali west','Female','1999-11-22','2022-02-22',25000),
(1002,'Ankita','Kadam','8578459625','102,Girnar Society,Goregaon east','female','1997-12-12','2022-02-04',25000),
(1003,'Harshad','Kadam','5863547852','102,Girnar Society,Goregaon east','Male','1994-02-17','2022-12-01',30000),
(1004,'Anjali','Shigvan','4578535689','Versova Andheri east','Female','1998-02-02','2023-01-01',36000),
(1005,'Meena','Salvi','4578523645','santosh nagar,goregaon east','Female','1995-02-12','2021-12-12',12000),
(1006,'Hari','Arurekar','7858895236','Kalachowki','Male','1998-07-26','2019-06-05',56000),
(1007,'Ammar','khan','7896586326','405/B-wing,Grand residency,bandra west','Male','1996-11-02','2018-02-02',85000),
(1008,'Satish','Malkar','7856892358','Chunabhatti','Male','1992-05-12','2017-02-06',20000),
(1009,'Vinod','Devangeri','9685743625','Marol naka ,Andheri(east)','Male','1968-05-05','2005-05-05',85000),
(1010,'Shraddha','Kadam','7845855863','Andheri west','Female','1991-11-22','2022-11-22',40000);

Insert Into Department(department_code,employee_id,designation)

Values('OPS001','1001','Operation Executive'),
('ACC001','1002','Accounts Executive'),
('HR001','1003','Human Resources'),
('AD001','1004','Admin excutive'),
('PUR001','1005','Purchase excutive'),
('HR002','1006','Hr Excutive'),
('OPS002',1007,'Operation engineer'),
('ACC002','1008','Accounts Executive'),
('SALE002','1009','Sales & Marketing Head'),
('SALE001','1010','Sales Executive');

Insert Into equipment(serial_no,type,model_name,year_of_manufacture,location,department_code)

Values(413,'AWP','JLG1250AJP','2008-12-01','Mumbai Yard','OPS001'),
(5012,'Crane','ZoomlionQuy80T','2011-12-01','Mumbai yard','SALE002'),
(477,'AWP','Deici s70.10','2010-12-01','Jamnagar','SALE001'),
(1002,'Scissor lift','GS1930','2010-05-01','Madhyapradesh','OPS001'),
(517,'Awp','JLG600Aj','2011-12-01','Dhar-MP','PUR001'),
(452,'AWP','GenieS85','2013-11-01','Bihar Bauroni','HR001'),
(0015,'Crane','Kobelco260','2011-01-01','Ghatampur','ACC001'),
(415,'Awp','JLG800AJ','2013-01-01','Simadhri','OPS001'),
(512,'Crane','Zoomlion260','2011-08-08','Mumbai Yard','SALE001'),
(412,'Scissor lift','GS1930','2012-02-02','Nagpur','OPS001');

```

Insert Into Customers(customer_id,customer_name,Address,Duration,Payment_status,serial_no)
Values('C001TA','Tata Steel Limited','Kalinganagar Karnataka','12 Months','Payment Done','413'),
('C001SK','Sky build construction','sambhaji nagar pune','2 years','outstanding','5012'),
('C001LT','L & T limited','Dhar madhyapradesh','2 months','pending','477'),
('C001BH','Bharat Heavy Electricals Limited','Nagpur','6 Months','pending','1002'),
('C001ON','Oil and Nantural Gas limites','Pune','1 Month','Pending','517'),
('C001SM','Sanghvi Movers Limited','Panvel Navi Mumbai','5 months','outstanding','452'),
('C001BC','Bhoir Cranes Pvt Limited','Bihar','6 Months','pending','0015'),
('C001OM','Omkar Cranes Limited','Navi Mumbai','5 Months','Payment Done','415'),
('C001BR','Barkat Cranes Limited','Mumbai','2 Months','payment Done','512'),
('C001CH','Chandi Cranes Pvt Limited','Odisha','8 Months','pending','412');

```

```

Insert Into Rent(rental_charges,mobalization_charges,demobalization_charges,serial_no,customer_id)
Values('100000','20000','20000','413','C001TA'),
('500000','85000','85000','5012','C001SK'),
('800000','52000','52000','477','C001LT'),
('700000','58000','58000','1002','C001BH'),
('900000','900000','90000','517','C001ON'),
('600000','96000','96000','452','C001SM'),
('50000','20000','20000','0015','C001BC'),
('30000','10000','10000','415','C001OM'),
('20000','5000','5000','512','C001BR'),
('80000','58000','58000','412','C001CH');

```

➤ UPDATE

Update employees

Set salary=25000

where employee_id=1005;

3. DQL(DATA QUERY LANGUAGE):-

Select*
from employees;

Select*
from department;

Select*
From Equipment;

Select*
From customers;

Select*
From Rent;

➤ ORDER BY

Select employee_id,first_name
From employees
Order by first_name;

Select employee_id,first_name
From employees
Order by first_name Desc,employee_id;

	employee_id [PK] integer	first_name character varying (25)
1	1009	Vinod
2	1001	Shruti
3	1010	Shraddha
4	1008	Satish
5	1005	Meena
6	1003	Harshad
7	1006	Hari
8	1002	Ankita
9	1004	Anjali
10	1007	Ammar

➤ WHERE

Select employee_id,first_name
From employees
Where first_name='Shruti';

	employee_id [PK] integer	first_name character varying (25)
1	1001	Shruti

➤ DISTINCT

Select DISTINCT department_code
From equipment;

➤ LIKE

Select first_name
From employees
where first_name
like 'A%';

	first_name character varying (25)
1	Ankita
2	Anjali
3	Ammar

Select first_name
From employees
where first_name
Like '%i';

➤ LIMIT

Select first_name,last_name
From employees
where last_name
like 'A%'
limit 2;

	first_name character varying (25) 🔒	last_name character varying (25) 🔒
1	Hari	Arurekar

Select first_name,last_name
from employees
limit 5;

➤ OFFSET

Select first_name,last_name
from employees
limit 5
offset 2;

Select*

From customers

Fetch First 3 Rows only;

➤ NOT , AND ,OR

Select first_name,last_name
from employees
Where not first_name='Shruti';

Select first_name,last_name

From employees

Where first_name='Harshad'or last_name='Kadam';

	first_name character varying (25) 🔒	last_name character varying (25) 🔒
1	Ankita	Kadam
2	Harshad	Kadam
3	Shraddha	Kadam

Select first_name,last_name

From employees

Where first_name='Harshad'AND last_name='Kadam';

	first_name character varying (25) 🔒	last_name character varying (25) 🔒
1	Harshad	Kadam

➤ GROUP BY

Select type,count(type)

From equipment

Group by type;

	type character varying (255) 🔒	count bigint 🔒
1	Awp	2
2	AWP	3
3	Scissor lift	2
4	Crane	3

Select type,count(type)

From equipment

Group by type

Having count (type)>2;

	type character varying (255) 🔒	count bigint 🔒
1	AWP	3
2	Crane	3

Select type,count(type) AS Count_city

From equipment

Group by type;

➤ AVG,MIN,MAX,SUM

Select AVG (rental_charges)

from rent;

Select MAX (rental_charges)

from rent;

Select MIN(rental_charges)

from rent;

Select SUM(rental_charges)

from rent;

	sum real
1	3.78e+06

➤ INNER JOIN

Select employees.first_name,department.designation,department.employee_id

From employees INNER JOIN department ON employees.employee_id=department.employee_id;

Select equipment.type,customers.customer_name,customers.serial_no

From equipment LEFT JOIN customers ON equipment.serial_no=customers.serial_no;

Select equipment.type,customers.customer_name,customers.serial_no

From equipment RIGHT JOIN customers ON equipment.serial_no=customers.serial_no;

	first_name character varying (25)	designation character varying (255)	employee_id integer
1	Shruti	Operation Executive	1001
2	Ankita	Accounts Executive	1002
3	Harshad	Human Resources	1003
4	Anjali	Admin excutive	1004
5	Meena	Purchase excutive	1005
6	Hari	Hr Excutive	1006
7	Ammar	Operation engineer	1007
8	Satish	Accounts Executive	1008
9	Vinod	Sales & Marketing Head	1009
10	Shraddha	Sales Executive	1010

➤ SUB QUERY

```
SELECT first_name,last_name,salary from employees where employee_id IN  
(SELECT employee_id from employees where salary>20000);
```

Data Output Messages Notifications			
	first_name character varying (25)	last_name character varying (25)	salary real
1	Shruti	Chavan	25000
2	Ankita	Kadam	25000
3	Harshad	Kadam	30000
4	Anjali	Shigvan	36000
5	Hari	Arurekar	56000
6	Ammar	khan	85000
7	Vinod	Devangeri	85000
8	Shraddha	Kadam	40000

THE END