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CREATE TABLE employee_details(
    employee_id NUMBER(10),
    first_name VARCHAR2(20),
    last_name VARCHAR2(20),
    age NUMBER(3),
    gender VARCHAR2(6),
    salary NUMBER(10,2),
    date_of_birth DATE
);
INSERT INTO employee_details
values(1,'Pratik','Mishra',22,'Male',200,'06-JUL-20');
INSERT INTO employee_details
values(2,'Vineet','Gauda',23,'Male',400,'06-MAR-20');
INSERT INTO employee_details
values(3,'Gagan','Kaur',21,'Female',100,'17-MAR-20');
INSERT INTO employee_details
values(4,'Anjali','Pandey',22,'Female',200,'15-JUL-20');
INSERT INTO employee_details
values(5,'Janhavi','More',25,'Female',1000,'12-DEC-20');
SELECT * FROM employee_details;
ALTER TABLE employee_details DROP COLUMN age;
DESC employee_details;
SELECT * FROM employee_details;
ALTER TABLE employee_details ADD(age NUMBER(3));
SELECT * FROM employee_details;
ALTER TABLE employee_details MODIFY (age NUmber(2));
SELECT * FROM employee_details;

DROP TABLE employee_details;
SELECT * FROM employee_details;

CREATE TABLE employee_details(
    employee_id NUMBER(10),
    first_name VARCHAR2(20),
    last_name VARCHAR2(20),
    age NUMBER(3) ,
    gender VARCHAR2(6),
    salary NUMBER(10,2),
    date_of_birth DATE,
    CONSTRAINT employee_id_pk PRIMARY KEY(employee_id)
);
INSERT INTO employee_details
values(1,'Pratik','Mishra',22,'Male',200,'06-JUL-20');
INSERT INTO employee_details
values(null,'Vineet','Gauda',23,'Male',400,'06-MAR-20');
DROP TABLE employee_details;
SELECT * FROM USER_CONSTRAINTS;
DROP TABLE employee_details;
DROP TABLE project_details;
CREATE TABLE project_details(
    project_id NUMBER(10),
    title VARCHAR2(50),
    cost NUMBER(10,2),
    client_name VARCHAR2(50),

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        CONSTRAINT project_id_pk PRIMARY KEY(project_id)
    );
CREATE TABLE employee_details(
    employee_id NUMBER(10),
    first_name VARCHAR2(20) NOT NULL,
    last_name VARCHAR2(20) NOT NULL,
    age NUMBER(3) NOT NULL,
    gender VARCHAR2(6) NOT NULL,
    salary NUMBER(10,2) NOT NULL,
    date_of_birth DATE NOT NULL,
    project_id NUMBER(10) NOT NULL,
    email VARCHAR(50) NOT NULL,
    city VARCHAR2(20) default 'Mumbai',
    CONSTRAINT employee_id_pk PRIMARY KEY(employee_id),
    CONSTRAINT project_id_fk FOREIGN KEY(project_id) REFERENCES
project_details(project_id),
    CONSTRAINT age_ck CHECK(AGE>=18),
    CONSTRAINT email_uq UNIQUE(email)
);
INSERT INTO PROJECT_DETAILS VALUES(1,'GPAY',1000,'GOOGLE');
INSERT INTO PROJECT_DETAILS VALUES(2,'PHONEPAY',5000,'PHONE PAY TECH');
SELECT * FROM PROJECT_details;

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INSERT INTO employee_details
values(1,'Pratik','Mishra',22,'Male',200,'06-JUL-20',1,'pratik3690mishra');
INSERT INTO employee_details
values(2,'Vineet','Gauda',23,'Male',400,'06-MAR-20',2,'vineetmindgate');
INSERT INTO employee_details values(7,'VF','VFV',41,'NHN',500,'17-APR-20',2);
INSERT INTO employee_details
values(4,'Anjali','Pandey',22,'Female',200,'15-JUL-20',2);
INSERT INTO employee_details
values(5,'Janhavi','More',25,'Female',1000,'12-DEC-20',2);
SELECT * FROM employee_details;
DROP TABLE employee_details;
DROP TABLE project_details;
INSERT INTO
employee_details(employee_id,first_name,last_name,age,gender,salary,date_of_birt
h,project_id,email)
VALUES(101,'sAMARTH','Patil',25,'Male',1000,'10-Jan-2000',1,'samarth@gmail.com')
;
select * from employee_details;

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--Client_master---
CREATE TABLE Client_master (
    client_no VARCHAR2(6) ,
    name VARCHAR2(20) NOT NULL,
    address1 VARCHAR2(30),
    address2 VARCHAR2(30),
    city VARCHAR2(15),
    state VARCHAR2(15),
    pincode NUMBER(6),
    bal_due NUMBER(10,2),
    CONSTRAINT client_no_pk PRIMARY KEY(client_no),

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        CONSTRAINT client_no_ck CHECK(client_no LIKE 'C%')
    );
INSERT INTO client_master
(client_no,name,address1,address2,city,state,pincode,bal_due)
VALUES('C00001','Ivan
Bayross','Bhandup','Bombay','Bombay','MAHARASHTRA',400054, 15000 );
INSERT INTO client_master
(client_no,name,address1,address2,city,state,pincode,bal_due)
VALUES('C00002','Vandana
Saitwal','Madras','Madras','Madras','MAHARASHTRA',400054, 15000 );
INSERT INTO client_master
(client_no,name,address1,address2,city,state,pincode,bal_due)
VALUES('C00003','Pramada
Jaguste','Dadar','Bombay','Bombay','MAHARASHTRA',400054, 15000 );
INSERT INTO client_master
(client_no,name,address1,address2,city,state,pincode,bal_due)
VALUES('C00004','Basu
Navindgi','Thane','Bombay','Bombay','MAHARASHTRA',400054, 15000 );
INSERT INTO client_master
(client_no,name,address1,address2,city,state,pincode,bal_due)
VALUES('C00005','Ravi Sreedharan','chandini chowk','purani
delhi','Delhi','Delhi',100001,2000)
INSERT INTO client_master
(client_no,name,address1,address2,city,state,pincode,bal_due)

VALUES('C00005','Rukmini','Kalyan','Bombay','Bombay','MAHARASHTRA',400054, 15000
);
-----
-----
--product_master---
CREATE TABLE product_master (
    product_no VARCHAR2(6) ,
    description VARCHAR2(50) NOT NULL,
    profit_percent NUMBER(3,2) NOT NULL,
    unit_measure VARCHAR2(10) NOT NULL,
    record_lvl NUMBER(8) NOT NULL,
    sell_price NUMBER(8,2) NOT NULL,
    cost_price NUMBER(8,2) NOT NULL,
    CONSTRAINT product_no_pk PRIMARY KEY(product_no),
    CONSTRAINT product_no_ck CHECK(product_no LIKE 'P%'),
    CONSTRAINT sell_price_ck CHECK(sell_price> 0),
    CONSTRAINT cost_price_ck CHECK(cost_price > 0)
);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sell
price,cost_price)
VALUES('P00001','1.44 Floppies',5,'Piece',100,525,500);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sell
price,cost_price)
VALUES('P03453','Monitors',5,'Piece',5,1050,1000);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sell
price,cost_price)

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VALUES('P06734','Mouse',6,'Piece',10,12000,11280);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sel
l_price,cost_price)
VALUES('P07865','1.22 Flopppies',5,'Piece',100,525,500);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sel
l_price,cost_price)
VALUES('P07868','Keyboards',2,'Piece',10,3150,3050);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sel
l_price,cost_price)
VALUES('P07885','CD Drive',2.5,'Piece',10,5250,5100);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sel
l_price,cost_price)
VALUES('P07965','540 HDD',4,'Piece',10,8400,8000);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sel
l_price,cost_price)
VALUES('P07975','1.44 Drive',5,'Piece',10,1050,1000);
INSERT INTO
product_master(product_no,description,profit_percent,unit_measure,record_lvl,sel
l_price,cost_price)
VALUES('P08865','1.22 Drive',5,'Piece',2,1050,1000);

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--SALESMAN_MASTER--

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CREATE TABLE salesman_master (
salesman_no VARCHAR2(6),
salesman_name VARCHAR2(20) NOT NULL,
Address1 VARCHAR2(30),
Address2 VARCHAR2(30),
city VARCHAR2(20),
pincode VARCHAR2(6),
state VARCHAR2(20),
sal_amt NUMBER(8,2) NOT NULL,
tgt_to_get NUMBER(6,2) NOT NULL,
ytd_sales NUMBER(6,2) NOT NULL,
remarks VARCHAR2(60),
CONSTRAINT salesman_no_pk PRIMARY KEY(salesman_no),
CONSTRAINT salesman_no_ck CHECK(salesman_no LIKE 'S%'),
CONSTRAINT sal_amt_ck CHECK(sal_amt > 0),
CONSTRAINT tgt_to_get_ck CHECK(tgt_to_get > 0)
);
INSERT INTO salesman_master
VALUES('S00001','Kiran','A/14','Worli','Bombay','400002','MAH',3000,100,50,'Good
');
INSERT INTO salesman_master
VALUES('S00002','Manish','65','Nariman','Bombay','400001','MAH',3000,200,100,'Go
od');
INSERT INTO salesman_master
VALUES('S00003','Ravi','P-7','Bandra','Bombay','400032','MAH',3000,200,100,'Good

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');
        INSERT INTO salesman_master
VALUES('S00004','Ashish','A/5','Juhu','Bombay','400044','MAH',3500,200,150,'Good
');
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-----
--SALES_ORDER--
CREATE TABLE sales_order(
    s_order_no VARCHAR2(6),
    s_order_date date,
    client_no VARCHAR2(6),
    dely_addr VARCHAR2(25),
    salesman_no VARCHAR2(6),
    dely_type CHAR(1) DEFAULT 'F',
    billed_yn CHAR(1)DEFAULT 'N',
    dely_date date,
    order_status VARCHAR2(10),
    CONSTRAINT s_order_no_pk PRIMARY KEY(s_order_no),
    CONSTRAINT s_order_no_ck CHECK(s_order_no LIKE '0%'),
    CONSTRAINT client_no_fk FOREIGN KEY(client_no) REFERENCES
Client_master(client_no),
    CONSTRAINT salesman_no_fk FOREIGN KEY(salesman_no) REFERENCES
salesman_master(salesman_no),
    CONSTRAINT dely_type CHECK(dely_type IN('P','F')),
    CONSTRAINT billed_yn CHECK(billed_yn IN('Y','N')),
    CONSTRAINT dely_date_ck CHECK(dely_date > s_order_date),
    CONSTRAINT order_status_ck CHECK(order_status IN('IN PROCESS','BACK
ORDER','CANCELLED'))
);
INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('019001','12-Jan-1996','C00001','S00001','F','N','20-Jan-1996','In
Process');
INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('019002','25-Jan-1996','C00002','S00002','P','N','27-Jan-1996','Cancelled
');

INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('019001','12-Jan-1996','C00001','S00001','F','N','20-Jan-1996','In
Process');
INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('019002','25-Jan-1996','C00002','S00002','P','N','27-Jan-1996','Cancelled

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');
INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('046865','18-Feb-1996','C00003','S00003','F','Y','20-Feb-1996','FulFilled
');
INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('019003','03-Apr-1996','C00001','S00001','F','Y','07-Apr-1996','FulFilled
');
INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('046866','20-May-1996','C00004','S00002','P','Y','22-May-1996','Cancelled
');
INSERT INTO
sales_order(s_order_no,s_order_date,client_no,salesman_no,dely_type,billed_yn,de
ly_date,order_status)

VALUES('010008','24-May-1996','C00005','S00004','F','N','26-May-1996','In
Process');
-----
-----
--SALES_ORDER_DETAILS--
CREATE TABLE sales_order_details(
s_order_no VARCHAR2(6),
product_no VARCHAR2(6),
oty_ordered NUMBER(8),
qty_disp NUMBER(8),
product_rate NUMBER(10,2),
CONSTRAINT s_order_no_fk FOREIGN KEY(s_order_no) REFERENCES
sales_order(s_order_no),
CONSTRAINT product_no_fk FOREIGN KEY(product_no) REFERENCES
product_master(product_no)

);

-----
-----
--CHALLAN_HEADER--
CREATE TABLE challan_header(
challan_no VARCHAR2(6),
s_order_no VARCHAR2(6),
challan_date DATE NOT NULL,
billed_yn CHAR(1) DEFAULT 'N' ,
CONSTRAINT challan_no_pk_ PRIMARY KEY( challan_no),
CONSTRAINT challan_no_ck_ CHECK ( challan_no LIKE 'CH%'),
CONSTRAINT s_order_no_fk_ FOREIGN KEY(s_order_no) REFERENCES sales_order(
s_order_no),
CONSTRAINT billed_yn_ck_ CHECK (billed_yn ='Y' OR billed_yn ='N')

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);
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--CHALLAN_DETAILS--
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```
CREATE TABLE challan_details(  
    challan_no VARCHAR2(6),  
    product_no VARCHAR2(6),  
    qty_disp NUMBER(4,2) NOT NULL,  
    CONSTRAINT challan_no_pkey PRIMARY KEY(challan_no),  
    CONSTRAINT challan_no_fkey FOREIGN KEY(challan_no) REFERENCES  
challan_header(challan_no),  
    CONSTRAINT product_no_fkey FOREIGN KEY(product_no) REFERENCES  
product_master(product_no)  
);
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commit;
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CREATE TABLE employee_details (  
    employee_id NUMBER(10),  
    first_name VARCHAR2(50) NOT NULL,  
    last_name VARCHAR2(50) NOT NULL,  
    age NUMBER(3) NOT NULL,  
    gender VARCHAR(6) NOT NULL,  
    qualification VARCHAR(50) not null,  
    city VARCHAR(50) NOT NULL,  
    date_OF_birth DATE NOT NULL,  
    salary NUMBER(10,2),  
    CONSTRAINT employee_id_pk PRIMARY KEY(employee_id)  
);
```

```
INSERT INTO employee_details values  
(3681,'Ashish','Kamble',32,'Male','M.Tech','Nagpur','13-Jun-1990',25000);  
INSERT INTO employee_details values (3680, 'Anjali','Pandey',22, 'Female',  
'B.Tech' ,'Kalyan','16-SEP-2000',25000);  
INSERT INTO employee_details values (3683,'Gagandeep  
Kaur','Jandu',21,'Female','B.E.','Kalyan','17-MAR-2001',30000);  
INSERT INTO employee_details values  
(3690,'Pratik','Mishra',22,'Male','B.E.','Pune','06-JUL-2000',25000);  
INSERT INTO employee_details values  
(3689,'Pratik','Ghadge',23,'Male','B.E.','Mumbai','16-OCT-98',1000);  
INSERT INTO employee_details VALUES (3706, 'Vineet','Gauda',22, 'Male', 'B.E.'  
, 'Mumbai', '19-SEP-1999',25000);  
INSERT INTO employee_details values  
(3701,'Rohit','Dagade',21,'Male','B.E.','Mumbai','25-APR-2001',30000);  
INSERT INTO employee_details VALUES  
(3705,'Yash','Walanju',21,'Male','B.Tech','Alibag','09-APR-2001',25000);  
INSERT INTO employee_details VALUES  
(3703,'Janhavi','More',22,'Female','B.E.','Thane','28-APR-2000',25000);  
INSERT into employee_details values  
(3679,'Gaurav','Baswant',25,'Male','B.E.','Mumbai','15-Jun-1998',25000);  
INSERT INTO employee_details values (3682,'Dinesh','Rajan',22,'Male','B  
E.','Mumbai','13-Nov-2000',25000);  
INSERT INTO employee_details values  
(3699,'Vipul','Tambavekar',23,'Male','M.Tech','Satara','06-March-1997',26000);  
INSERT INTO employee_details values
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(3700,'Pradeep','sawant',24,'Male','B.E.','Pune','12-DEC-1997',25000);
INSERT INTO employee_details values (3702,'Siddhesh','Kumbhar',23,'Male','B.
Tech','Satara','10-Jun-1999',25000);
INSERT INTO employee_details values
(3685,'Kapil','Khandpekar',26,'Male','B.E.','Mumbai','03-May-1995',25300);
INSERT INTO employee_details values (3693,
'Sayali','Shete',22,'Female','B.E.','Mumbai','20-NOV-1999',25000);
INSERT INTO employee_details values (3707, 'Suraj','Gupta',23, 'Male', 'B.Tech'
,'Vasai','20-jan-1999',25000);
INSERT INTO employee_details values
(3698,'Suraj','Patel',24,'Male','B.E.','Mumbai','13-Jun-1998',25000);
INSERT INTO employee_details values
(3688,'Prashant','Zunzarrao',24,'Male','B.E.','Kalyan','23-Dec-1997',25000);
INSERT INTO employee_details values
(3695,'Siraj','Shaikh',24,'Male','B.E.','Mumbai','01-jan-1998',25000);
INSERT INTO employee_details values
(3704,'Amit','Wagharalkar',24,'Male','B.E.','Mumbai','11-july-1998',25000);
INSERT INTO employee_details values
(3692,'Rohit','Pandey',28,'Male','B.E.','Mumbai','01-JAN-1994',25797);
INSERT INTO employee_details values
(3678,'ajay','benbansi',25,'Male','B.E.','Mumbai','22-oct-1997',25000);
INSERT INTO employee_details values
(3614,'Rishab','Gharti',23,'Male','B.Tech','Mumbai','14-DEC-1998',25000);
INSERT INTO employee_details values
(3691,'Kunal','Aakre',24,'Male','B.Tech','Nasik','06-Mar-1998',25000);
INSERT INTO employee_details values (3694,'SHABAN Ali','KHAN',23,'Male','B.E.
MECH','Mumbai','06-JAN-1998',800);
INSERT INTO employee_details values
(3696,'Shakti','Patole',22,'Male','B.E.','BADLAPUR','24-MAR-2000',25000);
INSERT INTO employee_details values (3697, 'Siddhesh', 'Patangrao', 26, 'Male',
'B.E.', 'Ambivli', '22-Apr-1996', 2500);
INSERT into employee_details values
(3655,'Amol','Pawar',24,'Male','B.E.','Kolhapur','21-Oct-1998',26000);
INSERT into employee_details
values(3686,'Kavita','Khajure',23,'Female','B.Tech','Thane','25-Aug-1999',25000)
;
select * from employee_details;
--all records--
select * from employee_details;
--to select specific COLUMNS(SELECTED COLUMNS)--
SELECT employee_id,first_name,last_name,salary FROM employee_details;
select * from employee_details where city = 'Kalyan';
select * from employee_details where qualification = 'B.E.' AND city = 'Kalyan';
select * from employee_details where city != 'Mumbai';
select * from employee_details where city NOT IN('Mumbai','Pune');
select * from employee_details where city IN('Mumbai','Pune');
SELECT * from employee_details where salary BETWEEN 25000 AND 30000;
SELECT * from employee_details where salary NOT BETWEEN 25000 AND 30000;
SELECT * from employee_details where first_name LIKE 'A%';
SELECT * from employee_details where last_name LIKE '%ar';
SELECT * from employee_details ORDER BY first_name;
SELECT * from employee_details ORDER BY first_name DESC;
SELECT first_name , last_name , city FROM employee_details ORDER BY first_name
ASC;

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SELECT first_name , last_name , city FROM employee_details ORDER BY city ,
first_name;
---aggregate functions--
SELECT AVG(salary) from employee_details;
SELECT MAX(salary) from employee_details;
SELECT MIN(salary) from employee_details;
SELECT COUNT(city)  from employee_details where city = 'Mumbai';
SELECT city , count(city) FROM employee_details group by city order by city;
SELECT city , count(city) FROM employee_details group by city order by
count(city);
SELECT city , SUM(salary) FROM employee_details GROUP BY city HAVING SUM(salary)
<= 80000 ORDER BY city;
SELECT city , SUM(salary) FROM employee_details GROUP BY city HAVING SUM(salary)
>= 80000 ORDER BY city;
CREATE TABLE color_a (
        color_id NUMBER(10),
        name VARCHAR(30)
);
INSERT INTO color_a VALUES(1,'Blue');
INSERT INTO color_a VALUES(2,'Green');
INSERT INTO color_a VALUES(3,'Yellow');

CREATE TABLE color_b (
        color_id NUMBER(10),
        name VARCHAR(50)
);
INSERT INTO color_b VALUES(1,'Blue');
INSERT INTO color_b VALUES(2,'Green');
INSERT INTO color_b VALUES(4,'Gold');
select * from color_a;
select * from color_b;
select * from color_a CROSS JOIN color_b;
--joins--
--inner join--
select * from color_a a JOIN color_b b ON a.color_id = b.color_id;
select * from color_a a INNER JOIN color_b b ON a.color_id = b.color_id;
--Outer Join --
--left outer join--
select * from color_a a LEFT JOIN color_b b ON a.color_id = b.color_id;
--right outer join--
select * from color_a a RIGHT JOIN color_b b ON a.color_id = b.color_id;
--full outer join--
select * from color_a a FULL OUTER JOIN color_b b ON a.color_id = b.color_id;
--Self Join--
CREATE TABLE employee_manager_details (
        employee_id NUMBER(10),
        name VARCHAR2(20),
        designation VARCHAR2(20),
        reports_to NUMBER(10)
);
INSERT INTO employee_manager_details VALUES(101,'x','Director',null);
INSERT INTO employee_manager_details VALUES(102,'y','Manager',101);
INSERT INTO employee_manager_details VALUES(103,'z','Jr Manager',102);
INSERT INTO employee_manager_details VALUES(104,'a','Trainee',103);

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INSERT INTO employee_manager_details VALUES(105,'b','Trainee',103);

select * from employee_manager_details;

SELECT * FROM employee_manager_details emp CROSS JOIN employee_manager_details
mgr;
SELECT emp.name , 'reports to' , mgr.name FROM employee_manager_details emp JOIN
employee_manager_details mgr ON emp.reports_to = mgr.employee_id;
CREATE TABLE employee_details(
    employee_id VARCHAR2(10),
    first_name VARCHAR2(20),
    last_name VARCHAR2(20),
    age NUMBER(3),
    gender VARCHAR2(6),
    salary NUMBER(10,2),
    date_of_birth DATE,
    project_id NUMBER(10),
    email VARCHAR(50) NOT NULL,
    city VARCHAR2(20) DEFAULT 'Mumbai',
    CONSTRAINT employee_id_pk PRIMARY KEY(employee_id),
    CONSTRAINT project_id_fk FOREIGN KEY(project_id) REFERENCES
project_details(project_id),
    CONSTRAINT age_ck CHECK(age >= 18),
    CONSTRAINT email_uq UNIQUE(email)
);

INSERT INTO
employee_details(employee_id,first_name,last_name,age,gender,salary,date_of_birt
h,project_id,email)
VALUES('MGS'||employee_sequence.nextVal,'Gagandeep
kaur','Jandu',21,'Female',20000,'17-MAR-01',1,'gagan123@gmail.com');
INSERT INTO
employee_details(employee_id,first_name,last_name,age,gender,salary,date_of_birt
h,project_id,email)
VALUES('MGS'||employee_sequence.nextVal,'Anjali','Pandey',22,'Female',25000,'27-
JAN-01',2,'abc123@gmail.com');
INSERT INTO
employee_details(employee_id,first_name,last_name,age,gender,salary,date_of_birt
h,project_id,email)
VALUES('MGS'||employee_sequence.nextVal,'Sejal','Jain',21,'male',30000,'16-SEP-0
1',1,'abcd123@gmail.com');
CREATE TABLE project_details(
    project_id NUMBER(10),
    title VARCHAR2(50),
    cost NUMBER(10,2),
    client_name VARCHAR2(50),
    CONSTRAINT project_id_pk PRIMARY KEY(project_id)
);
INSERT INTO project_details VALUES(1,'Gpay',10000,'Google');
INSERT INTO project_details VALUES(2,'PhonePay',5000,'Phone Pay Tech');
select * from project_details;
DROP TABLE employee_details;
DROP TABLE project_details;
select * from employee_details;

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--
SELECT * FROM project_details project JOIN employee_details employee ON
project.project_id = employee.project_id AND project.title = 'Gpay';
SELECT * FROM employee_details WHERE project_id = (
    SELECT project_id from project_details WHERE title = 'Gpay'
);
SELECT * FROM employee_details WHERE NOT EXISTS (SELECT project_id FROM
project_details WHERE title = 'BHIM');
CREATE SEQUENCE employee_sequence;
SELECT employee_sequence.nextVal FROM dual;
SELECT employee_sequence.currVal FROM dual;
select * from employee_details;
DROP SEQUENCE employee_sequence;
CREATE SEQUENCE employee_sequence
START WITH 10000
INCREMENT BY 10;
INSERT INTO
employee_details(employee_id,first_name,last_name,age,gender,salary,date_of_birt
h,project_id,email)
VALUES('MGS' || employee_sequence.nextVal, 'Gagandeep
kaur', 'Jandu', 21, 'Female', 20000, '17-MAR-01', 1, 'gagan123@gmail.com');
INSERT INTO
employee_details(employee_id,first_name,last_name,age,gender,salary,date_of_birt
h,project_id,email)
VALUES('MGS' || employee_sequence.nextVal, 'Anjali', 'Pandey', 22, 'Female', 25000, '27-
JAN-01', 2, 'abc123@gmail.com');
INSERT INTO
employee_details(employee_id,first_name,last_name,age,gender,salary,date_of_birt
h,project_id,email)
VALUES('MGS' || employee_sequence.nextVal, 'Sejal', 'Jain', 21, 'male', 30000, '16-SEP-0
1', 1, 'abcd123@gmail.com');
SELECT * FROM employee_details;
--STRING FUNCTIONS--
SELECT ASCII('a') from dual;
SELECT ASCII('A') from dual;

SELECT CHR(65) from dual;
SELECT CHR(97) from dual;

SELECT CONCAT('Happy','Coding') FROM dual;
SELECT 'Happy' || ' ' || 'Coding' FROM dual;

SELECT INITCAP('HAPPY CODING') FROM dual;

SELECT LENGTH('MINDGATE SOLUTIONS') FROM dual;
SELECT first_name FROM employee_details ORDER BY LENGTH(first_name) DESC;
SELECT SYSDATE from dual;
SELECT ADD_MONTHS(SYSDATE,2) from dual;
SELECT ADD_MONTHS(SYSDATE,-2) from dual;

SELECT SYSDATE +1 FROM dual;
SELECT SYSDATE -2 from DUAL;

SELECT EXTRACT(DAY FROM SYSDATE) FROM DUAL;

```

```

SELECT EXTRACT(DAY FROM TO_DATE('13-DEC-2022','DD-MON-YYYY')) FROM DUAL;

SELECT EXTRACT(MONTH FROM SYSDATE) FROM DUAL;
SELECT EXTRACT(MONTH FROM TO_DATE('13-DEC-2022','DD-MON-YYYY')) FROM DUAL;

--VIEW--
SELECT * FROM employee_details;
CREATE VIEW employee_vw
AS
    SELECT
        employee_id,
        first_name,
        last_name,
        gender

    FROM
        employee_details;
select * from employee_vw;
SELECT * FROM employee_vw
WHERE last_name ='Pandey';

UPDATE employee_vw SET first_name ='Manish' WHERE employee_id = 3689;
select * from employee_details;
select employee_id from employee_vw;
--index--
CREATE INDEX employee_first_name
ON employee_details(first_name);
select * from all_indexes where table_name ='EMPLOYEE_DETAILS';

--STORED PROCEDURE--
DROP TABLE employee_details;
CREATE TABLE employee_details(
    employee_id NUMBER(10),
    name VARCHAR2(20) not null,
    salary NUMBER(10) NOT NULL,
    CONSTRAINT employee_id_pk PRIMARY KEY(employee_id)
);

CREATE OR REPLACE PROCEDURE insert_new_employee(
    p_employee_id IN NUMBER,
    p_name IN VARCHAR2,
    p_salary IN NUMBER
)
IS
BEGIN
    INSERT INTO employee_details
    VALUES(p_employee_id , p_name , p_salary);
    COMMIT;

END;
/
BEGIN
    insert_new_employee(101,'x',100);

END;
/

```

```
select * from employee_details;  
commit;
```