

Learn to create tables with primary keys, foreign keys along with unnamed and named constraints at column level and table level

1. Write SQL statement to create a table called 'Location' as below:

Column name	Location_Id	Location_name
Constraint type	Primary key	NOT NULL

2. Write SQL statement to create a table called 'Region' as below:

Column name	Region_Id	Region_name	Region_Code	Location_id
Constraint type	Primary key	NOT NULL	Check if it's either 1 or 2	Foreign key to 'Location' table

3. Write SQL statement to create a table called 'DEPARTMENT' as below:

Column name	Dep_Id	Dep_name	Location_id
Constraint type	Primary key	NOT NULL	Foreign key to 'Location' table

4. Write SQL statement to create a table called 'EMPLOYEE' as below:

Column name	Employee_Id	First_name	Last_name	Hire_date	Salary	Department_id
Constraint type	Primary key	NOT NULL	NOT NULL	NOT NULL	Check it's greater than 1000	Foreign key to 'Department' table

```
*****  
set of code with simplicity  
*****
```

```
drop table employee purge;  
drop table department purge;  
drop table region purge;  
drop table location purge;
```

```
create table location  
(  
  location_id number(2) primary key,  
  location_name varchar2(25) not null  
);
```

```
create table region  
(  
  region_id number(2) primary key,  
  region_name varchar2(25) not null,  
  region_code number(1) check (region_code in (1,2)),  
  location_id number(2) references location(location_id)  
);
```

```
create table department  
(  
  dept_id number(2) primary key,  
  dept_name varchar2(15) not null,  
  location_id number(2) references location(location_id)  
);
```

```
create table employee  
(  
  employee_id number(2) primary key,  
  first_name varchar2(15) not null,  
  last_name varchar2(15) not null,  
  hire_date date not null,  
  salary number(5) check (salary>1000),  
  department_id number(2) references department  
);
```

```
*****
```

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Different set of code

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```
drop table employee purge;
drop table department purge;
drop table region;
drop table location;
```

```
CREATE TABLE Location (
Location_id VARCHAR(10),
Location_name VARCHAR(30) NOT NULL,
constraint Location_PK PRIMARY KEY (Location_id)
);
```

```
CREATE TABLE Region (
Region_Id NUMERIC(10),
Region_name varchar(30) NOT NULL,
Region_Code NUMBER(1) constraint R_C_CHK CHECK (Region_Code in (1,2)),
Location_id varchar(10),
constraint Region_PK PRIMARY KEY(Region_Id),
CONSTRAINT region_loc_FK FOREIGN KEY (Location_id)REFERENCES Location(Location_id)
);
```

```
CREATE TABLE DEPARTMENT (
Dep_id VARCHAR(10),
Dep_name varchar(30) NOT NULL,
Location_id varchar(10),
constraint DEPARTMENT_PK PRIMARY KEY (Dep_id),
CONSTRAINT depla_loc_FK FOREIGN KEY (Location_id)REFERENCES Location (Location_id)
);
```

```
CREATE TABLE EMPLOYEE (
Employee_id VARCHAR(10),
First_name varchar(30) NOT NULL,
Last_name varchar(30) NOT NULL,
Hire_date DATE NOT NULL,
Salary NUMBER constraint E_S_CHK CHECK (Salary > 1000),
Dept_id varchar(10),
constraint EMPLOYEE_PK PRIMARY KEY (Employee_id),
CONSTRAINT E_depa_FK FOREIGN KEY (Dept_id)REFERENCES Department (Dep_id)
);
```

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