1. **locations**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| location\_no | NUMBER(5) | PK | NN |  |  |  | 지역번호 |
| location\_name | VARCHAR2(20) | CK('NA', 'SA', 'AF', 'AS', 'EU') | NN |  |  |  | 지역명 |

1. **address**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| address\_no | NUMBER(5) | PK | NN |  |  |  | 주소번호 |
| location\_no | NUMBER(5) | FK | NN | locations | location\_no |  | 지역번호 |
| city | VARCHAR2(20) |  | NN |  |  |  | 도시명 |
| post\_no | VARCHAR2(20) |  |  |  |  |  | 우편번호 |
| street\_address | VARCHAR2(100) |  |  |  |  |  | 도로명 주소 |

1. **Departments**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| dept\_no | NUMBER(5) | PK | NN |  |  |  | 부서번호 |
| address\_no | NUMBER(5) | FK | NN | address | address\_no |  | 주소번호 |
| dept\_name | VARCHAR2(20) |  | NN |  |  |  | 부서이름 |

1. **jobs**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| job\_no | NUMBER (5) | PK | NN |  |  |  | 직무코드 |
| job\_name | VARCHAR2(30) |  | NN |  |  |  | 직무명 |

1. **commissions**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| commission\_no | NUMBER (5) | PK | NN |  |  |  | 커미션 등급코드 |
| commission\_rate | NUMBER(3,3) |  | NN |  |  |  | 커미션 비율 |

1. **employees**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| employee\_no | NUMBER (5) | PK | NN |  |  |  | 직원번호 |
| commission\_no | NUMBER (5) | FK |  | commissions | commission\_no |  | 커미션 등급코드 |
| job\_no | NUMBER (5) | FK |  | jobs | job\_no |  | 직무코드 |
| position | VARCHAR2(30) |  | NN |  |  |  | 직급 |
| dept\_no | NUMBER (5) |  |  |  |  |  |  |
| salary | NUMBER (5) |  | NN |  |  |  | 급여 |
| comments | VARCHAR2(80) |  |  |  |  |  | 의견 |
| employee\_id | VARCHAR2(30) | UK | NN |  |  |  | ID |
| last\_name | VARCHAR2(30) |  |  |  |  |  | 성 |
| hiredate | DATE |  |  |  |  |  | 입사일 |
| first\_name | VARCHAR2(30) |  |  |  |  |  | 이름 |
| employee\_pw | VARCHAR2(30) |  | NN |  |  |  | Password |

1. **customers**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| customer\_no | NUMBER (5) | PK | NN |  |  |  | 고객번호 |
| employee\_no | NUMBER (5) | FK |  | employees | employee\_no |  | 직원번호 |
| address\_no | NUMBER(5) | FK |  | address | address\_no |  | 주소번호 |
| credit\_no | NUMBER (5) | FK | NN | credits | credit\_no |  | 신용등급 코드 |
| customer\_name | VARCHAR2(30) |  | NN |  |  |  | 이름 |
| customer\_phone\_no | VARCHAR2(80) |  |  |  |  |  | 전화번호 |
| customer\_comment | VARCHAR2(30) |  |  |  |  |  | 고객사 정보(의견) |
| customer\_id | VARCHAR2(30) | UK | NN |  |  |  | ID |
| customer\_pw | VARCHAR2(30) |  | NN |  |  |  | 패스워드 |

1. **credits**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| credit\_no | NUMBER (5) | PK | NN |  |  |  | 신용등급 코드 |
| credit\_name | VARCHAR2(30) | CK('EXCELLENT', 'GOOD', 'POOR') | NN |  |  |  | 신용등급명 |

1. **order\_items**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| order\_item\_no | NUMBER (5) | PK | NN |  |  |  | 주문항목번호 |
| product\_no | NUMBER (5) | FK | NN | products | product\_no |  | 상품번호 |
| order\_no | NUMBER (5) | FK | NN | orders | order\_no |  | 주문번호 |
| product\_quantity | NUMBER (5) |  |  |  |  |  | 상품수량 |

1. **orders**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| order\_no | NUMBER (5) | PK | NN |  |  |  | 주문번호 |
| customer\_no | NUMBER (5) | FK | NN | customers | customer\_no |  | 고객번호 |
| employee\_no | NUMBER (5) | FK |  | employees | employee\_no |  | 담당 영업사원 |
| shipment\_date | DATE |  |  |  |  |  | 선적날짜 |
| order\_money | NUMBER(30) |  | NN |  |  |  | 주문금액 |
| pay\_method | VARCHAR2(80) | CK('Credit', 'Cash') |  |  |  |  | 지불방법 |
| shipment\_status | VARCHAR2(30) | CK('Y', 'N') |  |  |  |  | 선적여부 |
| order\_method | VARCHAR2(30) | CK('우편', '팩스', '전화') |  |  |  |  | 주문방식 |
| order\_date | DATE |  |  |  |  |  | 주문날짜 |

1. **payments**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| payment\_no | NUMBER (5) | PK | NN |  |  |  | 결제번호 |
| transport\_status\_no | NUMBER (5) | FK |  | transport\_status | transport\_status\_no |  | 운송번호 |
| order\_no | NUMBER (5) | FK |  | orders | order\_no |  | 주문번호 |
| payment\_date | VARCHAR2(30) |  | NN |  |  |  | 결제날짜 |

1. **product\_categories**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| product\_category\_no | NUMBER (5) | PK | NN |  |  |  | 제품군 번호 |
| product\_category\_name | VARCHAR2(30) |  | NN |  |  |  | 제품군명 |

1. **products**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| product\_no | NUMBER (5) | PK | NN |  |  |  | 상품번호 |
| product\_category\_no | NUMBER (5) | FK | NN | product\_categories | product\_category\_no |  | 제품군 번호 |
| product\_name | VARCHAR2(80) |  | NN |  |  |  | 상품명 |
| product\_brief\_comment | VARCHAR2(120) |  |  |  |  |  | 요약된 설명 |
| product\_price | VARCHAR2(30) |  | NN |  |  |  | 가격(단가) |
| product\_bundle\_quantity | VARCHAR2(80) |  |  |  |  |  | 판매단위 |
| product\_detail\_comment | VARCHAR2(200) |  |  |  |  |  | 긴 설명 |
| product\_picture | VARCHAR2(30) |  |  |  |  |  | 사진 |
| product\_release\_date | DATE |  |  |  |  |  | 출시일 |

1. **transport\_status**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| transport\_status\_no | NUMBER (5) | PK | NN |  |  |  | 운송번호 |
| payment\_no | NUMBER (5) | FK | NN | payments | payment\_no |  | 결제번호 |
| transport\_date | DATE |  |  |  |  |  | 운송시점 |
| transport\_start | VARCHAR2(30) | CK(주소만가능) | NN |  |  |  | 출발지 |
| transport\_destination | VARCHAR2(30) |  | NN |  |  |  | 도착지 |
| current\_position | VARCHAR2(80) |  |  |  |  |  | 현재위치 |

1. **product\_lines**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| product\_line\_no | NUMBER (5) | PK | NN |  |  |  | 생산라인 번호 |
| product\_no | NUMBER (5) | FK |  | products | product\_no |  | 상품번호 |
| address\_no | NUMBER(5) | FK | NN | address | address\_no |  | 주소번호 |
| employee\_no | NUMBER (5) | FK |  | employees | employee\_no |  | 직원번호 |
| special\_status | VARCHAR2(15) |  |  |  |  |  | 특별여부 |

1. **outstock\_reason**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| outstock\_reason\_no | NUMBER (5) | PK | NN |  |  |  | 재고 바닥 사유 번호 |
| outstock\_reason\_name | VARCHAR2(30) |  |  |  |  |  | 재고 바닥 사유명 |
| reorder\_date | DATE |  |  |  |  |  | 재주문시점 |
| restocked\_date | DATE |  |  |  |  |  | 다시 재고가 생기는 날짜 |

1. **stocks**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| Stock\_items\_no | NUMBER (5) | PK | NN |  |  |  | 재고번호 |
| Product\_no | NUMBER (5) | FK | NN | products | product\_no |  | 상품번호 |
| outstock\_reason\_no | NUMBER (5) | FK |  | outstock\_reasons | outstock\_reason\_no |  | 재고 바닥 사유 번호 |
| employee\_no | NUMBER (5) | FK |  | employees | employee\_no |  | 직원번호 |
| stock\_max | NUMBER(10) |  | NN |  |  |  | 최대재고량 |
| stock\_quantity | NUMBER(10) |  | NN |  |  |  | 재고량 |

1. **stock\_items**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| storage\_no | NUMBER (5) | FK | NN | storages | storage\_no |  | 창고번호 |
| stock\_items\_no | NUMBER (5) | FK | NN | Stocks | stock\_items\_no |  | 재고번호 |

1. **storages**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** | **Nulls** | **FK Table** | **FK Column** | **Default** | **Column Desc** |
| storage\_no | NUMBER (5) | PK | NN |  |  |  | 창고번호 |
| employee\_no | NUMBER (5) | FK |  | employees | employee\_no |  | 창고관리 직원번호 |
| address\_no | NUMBER(5) | FK | NN | address | address\_no |  | 주소번호 |
| storages\_name | VARCHAR2(30) |  |  |  |  |  | 창고명 |