Cis 228

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Chap: 6

Program/Assignment: create a sequence and index

Title: City Jail

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|  | Question #1  CREATE SEQUENCE criminals\_criminal#\_seq  INCREMENT BY 1  START WITH 1017  NOCACHE  NOCYCLE;  CREATE SEQUENCE crimes\_crime#\_seq  INCREMENT BY 1  START WITH 1000  NOCACHE  NOCYCLE; |
|  | SELECT \*  FROM user\_sequences; |
|  |  |
|  | SELECT object\_name  FROM user\_objects  WHERE object\_type = 'SEQUENCE'; |
|  |  |
|  | INSERT INTO criminals ( criminal\_id, last, first, street, city, state, zip, phone, v\_status, p\_status, mail\_flag)  VALUES (criminals\_criminal#\_seq.NEXTVAL, 'Capps', 'Johnny', '11 wall st', 'berlin', 'MA', '34564', '', '', '', 'Y'); |
|  |  |
|  | INSERT INTO crimes( crime\_id, criminal\_id, classification, date\_charged, status, hearing\_date, appeal\_cut\_date)  VALUES (crimes\_crime#\_seq.NEXTVAL, 1017, 'M',NULL, 'CL', NULL, NULL); |
|  |  |
|  | Question #2  CREATE INDEX criminals\_contact\_idx  on criminals (last, street, phone); |
|  | SELECT table\_name, index\_name, column\_name  FROM user\_ind\_columns  WHERE table\_name = 'CRIMINAL'; |
|  |  |
|  | SELECT table\_name, index\_name, index\_type  FROM user\_indexes  WHERE table\_name = 'CRIMINALS'; |
|  |  |
|  | Question #3  Yes because the bitmap index structure can be particulary useful in the queries involving conpound conditions (using AND ans OR).  For example a WHERE clause might attempt to identify all Classification Column with the CL Status.  In this type of query, if a bit map index exists on the both columns, the bitmap index information  for the two columns Values (classification = 'M', status = 'CL' ) can be combines to identify the rows to be queried from the table. |
|  | Question #4  Yes because a synonym is a alternative name or alias for a database object, such as a table or a sequence.  A synonym is used for several reasons:  - A synonym gives you the convenience of not having a full object name,  including the schema name, if required.  - A synonym hides the actual object name, which can improve security.  -Synomym help minimize application modification by allowing the alias to be used in the application code.  when object changes, for example), you don't have to change the application code; instead, you can modify the synonym to identify the correct object. |